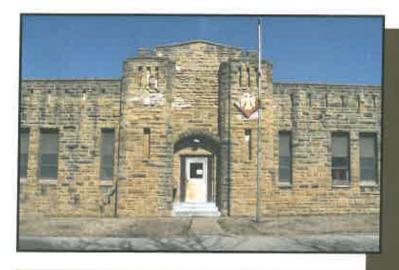
The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of Pawhuska with the Final Remediation Report for the former Pawhuska Armory.



DEED NOTICE

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former Pawhuska Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

ASBESTOS REMEDIATION

DEQ and its contractors completed the following activities:

- Asbestos inspection, including:
 - Asbestos containing sheetrock bedding mud
- Asbestos abatement, including:
 - Removal of sheetrock bedding mud

TARGETED BROWNFIELD ASSESSMENT

In August, 2011, DEQ provided a Phase l'Targeted Brownfield Assessment to the City of Pawhuska. A copy of this report is available at http://www. deq.state.ok.us/lpdnew/scapIndex.htm.

LEAD REMEDIATION

DEQ and its contractors completed the following activities:

- Lead-based paint (LBP) inspection
- Lead dust wipe sampling
- Soil sampling outside of firing range vent fan
- LBP abatement, including:
 - Scraping and sealing downspouts, window lintels, window sills, floors, overhead door frames, walls containing LBP, and handrails
 - Removal and replacement of doors containing LBP
- Indoor firing range cleanup, including:
 - Lead dust cleanup: high efficiency particulate air (HEPA) vacuuming, wet washing, and sealing with appropriate sealant floors, walls, and ceiling
- HEPA vacuuming and wet washing of floors in the building
- Proper disposal of associated waste



Additional copies of this report can be found at http://www.deq.state.ok.us/lpdnew/scapIndex.htm and DEQ Central Records at 707 N Robinson Oklahoma City, Oklahoma 73101.

This publication is issued by the Oklahoma Department of Environmental Quality authorized by Steven A. Thompson, Executive Director. Copies have been prepared at a cost of \$0.053 each. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries. cmullins/LPD\Armories_SCAP\Armory\Reports\PawhuskaArmory. 4/2012.

Land use Restrictions

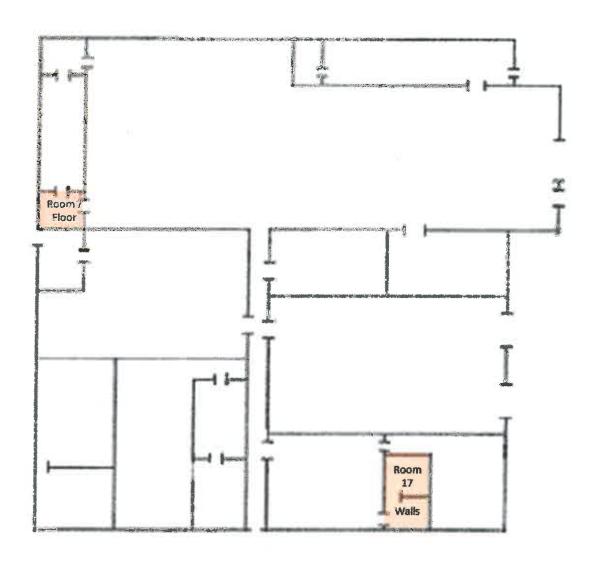
LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The indoor firing range should not be used as a child occupied facility. Child occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child under 6 spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant.



DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant	
Product(s)		
Coronado Paint Company	LEAD BLOCK TM	
Dumond Chemicals	LEAD STOP TM	
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat	
Encap Systems Corporation	EncapSeal TM I	
Encap Systems Corporation	EncapSeal TM II	
Fiberlock Technologies, Inc.	Child GUARD interior/exterior	
Fiberlock Technologies, Inc.	L-B-C® Type III	
Global Encasement, Inc.	LeadLock TM	
Grace Construction Products	Lead Seal®	
Grace Construction Products	Barrier Coat® II	
Insl-x Products Corporation	INSL-CAP TM	
SAFE Encasement Systems	SE-120 Protective Skin	
Specification Chemicals, Inc.	NU-WAL® #2500 Coating	

Former National Guard Armory Pawhuska, Oklahoma

Remediation Final Report



Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101





DEEDS AND LEGAL DOCUMENTS

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto City of Pawhuska, Oklahoma, Grantee, the following described real property in the premises lying and situated in County of Osage and State of Oklahoma as follows:

Lots Twenty (20) to Twenty-four (24), inclusive, Block Forty-seven (47), Prudom Addition to Pawhuska, County of Osage County, State of Oklahoma.

together with the improvements thereon and appurtenances thereunto belonging.

<u>NOTICE</u>: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD the same, together with all the buildings, improvements and appurtenances belonging thereto, if any, to the Grantee and Grantee's successors and assigns forever.

Signed and delivered this <u>3</u> day of <u>November</u> 2010.

City of Paw husky Po Box 539 Paw huske, die 74036

STATE OF OKLAHOMA



Major General Myles L. Deering,
Adjutant General of the State of Oklahoma

Pu

Ref. Amber Corbin Circle 3501 military Circle Octahomy City, 02 7311

00795

BK 1437P60376

I-2010-007958 11/30/2010 3.04 pm Page(s) 0378-0379

\$ 15.00 Doc: Denny Hutson - Osage County Clerk of State of Oklahoma

KNOW ALL MEN BY THESE PRESENTS:

Red. Amber Corbin C: cel 3501 military C: cel Oktohoma city, 1017911

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto City of Pawhuska, Oklahoma, Grantee. the following described real property in the premises lying and situated in County of Osage and State of Oklahoma as follows:

Lots Thirteen (13) to Nineteen (19), inclusive, Block Forty-seven (47), Prudom Addition to Pawhuska, County of Osage County, State of Oklahoma.

together with the improvements thereon and appurtenances thereunto belonging.

NOTICE: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD the same, together with all the buildings, improvements and appurtenances belonging thereto, if any, to the Grantee and Grantee's successors and assigns forever.

Signed and delivered this 33 day of NOVEMBER 2010.

City of Pawhuska P.D. Box 539 Pawhuska, ok

STATE OF OKLAHOMA



By:

Major Gene ral Myles L. Deering.

Adjutant C eneral of the State of Oklahoma

BK 1 43 7 PG D 3 7 9

ACKNOWLEDGMENT

STATE OF OKLAHOMA)	
) ss COUNTY OF OKLAHOMA)	
COUNTY OF OKLAHUMA)	
Before me, Jinnit	Phylip in and for this state, on
this 30day of November	2010 personally appeared Major General Myles L.
Deering, as Adjutant General of the	State of Oklahoma, to me known to be the identical
person who executed the within and	oregoing Quitclaim Deed, and acknowledged to me
that he executed the same as free an therein set forth.	d voluntary act and deed for the uses and purposes
morom set wear.	. ^
A STATE OF THE STA	knuter marker
	Notary Public
My Commission Expires:	9
Table 1	
193/12	
My Commission Number:	
0-1000685	

476P6020

02/21/2012 1:43 pm 1-2012-001212 Page(s) 0208-0211 Book 1476 \$ 19.00 \$ 0.00 Doc: Denny Hutson - Osage County Clerk

NOTICE OF REMEDIATION AND EASEMENT FORMER PAWHUSKA ARMORY PAWHUSKA, OKLAHOMA



LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statutes, 27A § 2-7-123 (C). This Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

The DEQ may take administrative or civil action to recover costs or to compel compliance with the Land Use Restrictions and to prevent damage to or interference with the Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls shall apply to the Affected Property and to persons who own and/or use the Affected Property until such time as the DEQ files a subsequent Notice of Remediation that changes or removes one or more of them. Activities that cause or could cause damage to the Remedy or the Engineering Controls or recontamination of soil or groundwater are prohibited.

The owner of the Affected Property has the legal authority to create, and does hereby voluntarily create, an easement granted to the DEQ and its employees and agents, for ingress and egress through, across and onto the parking and other outside areas of the Affected Property as they exist from time to time to assure the ongoing protection of the Remedy, Engineering Controls and Land Use Restrictions. This easement touches and concerns the land and runs with the land, is legally binding on all current and future owners and tenants of the Affected Property, and shall only be removed or modified if and when the DEQ modifies or removes the Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls.

REASON FOR NOTICE: The below described Affected Property was contaminated with materials that required remediation pursuant to state and federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on January 25, 2010, indicated that there was asbestos, lead-based paint, and lead dust in the building.

AFFECTED PROPERTY: The Affected Property is the former Pawhuska Armory located at 823 E 8th Street, Pawhuska, Osage County, Oklahoma.

The legal description is as follows:

Lots Twenty (20) to Twenty-four (24), inclusive, Block Forty-seven (47), Prudom Addition to Pawhuska, County of Osage County, State of Oklahoma.

REMEDY: Remediation activities (Remedy) at the Affected Property included:

The remedy included abatement of asbestos, and lead-based paint and dust. The remedy was completed on December 5, 2011.

Page 1 of 4



For more detailed information please refer to Former National Guard Armory Pawhuska, Oklahoma Remediation Final Report.

To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality Central Records Mailing Address P.O. Box 1677 Oklahoma City, Oklahoma 73101

Physical Address 707 N Robinson Oklahoma City, OK 73102

Electronic Address http://www.deq.state.ok.us/lpdnew/scapIndex.htm

DISCLAIMER

- (A) Lead: DEQ did not test every painted surface inside and outside of the building, therefore there is a potential for lead-based paint at the affected property.
- (B) Asbestos: DEQ did not test all building materials inside and outside of the building, therefore there is a potential for asbestos at the affected property.

CONTINUING OPERATION, MAINTENANCE AND MONITORING

- (A) Lead-based paint encapsulant: Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.
- (B) Sealant: Following cleanup, sealant was applied to the Indoor Firing Range (IFR) and room floors where lead-based paint abatement was performed. Sealant should be inspected on a periodic basis and maintained as appropriate.

LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The IFR should not be used as a child occupied facility. Child-occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child 6 or under spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by the DEQ or its successor agency. The person requesting the change in land use must demonstrate to the DEQ's satisfaction that contamination at the site has reached levels appropriate for the proposed new land uses and that further remediation is not necessary or that additional institutional or engineering controls are adequate to achieve levels protective of human health and the environment for the proposed uses.

The DEQ may require oversight costs, work plans, sampling, reports, and public participation as part of its review of the new information to support the requested change in land use restrictions. The person requesting the change will be required to follow agency procedures effective at the time of the request.

The DEQ at its discretion may determine, based on the new information submitted, that contaminants are present at the Site at levels that will not pose a risk to human health or the environment if the new land use restrictions being requested are allowed. Upon making this determination, the DEQ will file a recordable notice of remediation pursuant to state law in the land records in the in the office of the county clerk where the Site is located designating the new land use restrictions.

This Notice of Remediation and the restrictions and requirements contained herein run with the land and no change of ownership of the Affected Property will change the Land Use Restrictions.

Steven A. Thompson, Executive Director
Oklahoma Department of Environmental Quality

<u>2-16-12</u> Date

ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 16 day of 20 13, personally appeared Steven A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth.

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

2/17 , 20/3

Notary Public Janky

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PAWHUSKA ARMORY EASEMENT

I hereby certify that I have the legal right to, and do hereby, create an easement and encumber the real property as described in the foregoing Notice of Remediation. I hereby voluntarily grant an easement to the DEQ and its employees and agents, for ingress and egress through, across and onto the Affected Property to assure the ongoing placement, operation and protection of the remedy, engineering controls and land use restrictions described herein above.

MINDL	2-6-12
Landowner	Date

ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

4-20,2014

Notary Public

MAINTENANCE PLAN

MAINTENANCE PLAN FORMER PAWHUSKA ARMORY PAWHUSKA, OKLAHOMA

The Armory located at 836 East 8th Street, Pawhuska, Oklahoma, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on January 25, 2010, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, and lead dust. The remedy was completed on December 5, 2011. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

- 1. Firing Range Walls, floor and ceiling of indoor firing range were cleaned and sealed with acrylic sealant to remediate surfaces below 40μg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking.
- 2. All window lintels, window sills, down spouts, wood overhead doors, overhead door frames, and overhead door guards were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking.
- 3. The walls of Room #17 were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for Pawhuska Armory Floor Plan Map.
- 4. The floors of the Room #7 were cleaned and sealed with acrylic sealant to remediate surfaces below 40μg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking. See Attachment 2 for Pawhuska Armory Floor Plan Map.

Note -A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

If you have any questions or concerns feel free to contact me at (405) 702-5115.

Sincerely,

Dustin Davidson

Dustin Danilson

Environmental Programs Specialist

DEQ Land Protection Division

Site Cleanup Assistance Program

Land use Restrictions

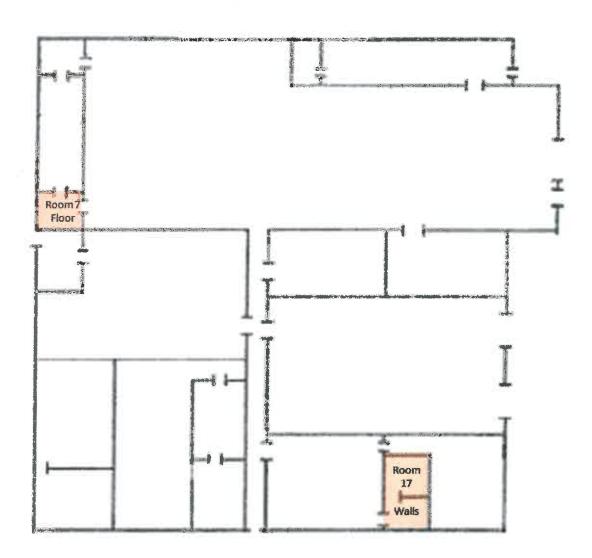
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- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The indoor firing range should not be used as a child occupied facility. Child occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child under 6 spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant.



DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant	
Product(s)	70.4	
Coronado Paint Company	LEAD BLOCK TM	
Dumond Chemicals	LEAD STOP TM	
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat	
Encap Systems Corporation	EncapSeal TM I	
Encap Systems Corporation	EncapSeal TM II	
Fiberlock Technologies, Inc.	Child GUARD interior/exterior	
Fiberlock Technologies, Inc.	L-B-C® Type III	
Global Encasement, Inc.	LeadLock TM	
Grace Construction Products	Lead Seal®	
Grace Construction Products Barrier Coat® II		
Insl-x Products Corporation	INSL-CAP TM	
SAFE Encasement Systems	SE-120 Protective Skin	
Specification Chemicals, Inc.	NU-WAL® #2500 Coating	

INSPECTION REPORTS



Asbestos Inspection

Pawhuska Armory

836 East 8th Street Pawhuska, Oklahoma 74056 January 25, 2010

DCS Contract No.: IDoo9139-4

PREPARED FOR:

Oklahoma Department of Environmental Quality Land Protection Division 707 North Robinson Oklahoma City, OK 73102

PREPARED BY:

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159

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REGULATORY REVIEW	_
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CERTIFICATION

This is to certify, that Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the Perry Armory, for the State of Oklahoma, Department of Environmental Quality, Land Protection Division. The Perry Armory Asbestos Inspection was performed by an Oklahoma Department of Labor Licensed, Asbestos Hazard Emergency Response Act Inspector, Jamie Marshall, of Marshall Environmental Management, Inc, under the direction of Oklahoma Department Of Labor Licensed, Asbestos Hazard Emergency Response Act Management Planner, Dr. Charles L. Marshall, Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The findings and recommendations included in this report are believed to accurately, depict the conditions observed on the date this Asbestos Inspection was performed.

Dr. Charles L. Marshall, CIH, CSP

3/8/10

Certified Industrial Hygienist - Comprehensive Practice Certification

#4489

Certified Safety Professional - Comprehensive Practice Certification

#9941

Registered Professional Environmental Specialist - State Department of Health

#710

Certified Hazardous Materials Manager, Master Level Certification

#1909

Certified Healthcare Safety Professional, Master Level Certification

#521

EPA AHERA Certifications

#400517 Inspector

#500396 Management Planner

#2415 Project Designer

ODOL License

#OKMP-0028 Project Designer #OKMP-0246 Management Planner

#OK-150343 Inspector

Jamie Marshall, B.S., Industrial Hygiene Associate

3/8/10 Date

Oklahoma Department of Labor License

#OK-158090 Inspector

LABORATORY ANALYSIS PERFORMED BY

Marshall Environmental Management, Inc. (AIHA/NIOSH PAT Lab ID #102334) 1601 SW 89th Street, A-100 Oklahoma City, OK 73159

EXECUTIVE SUMMARY

On January 25, 2010, Marshall Environmental Management, Inc. (MEM) accomplished an Asbestos Inspection of the Pawhuska Armory, so that strategy may be prepared for the abatement of Asbestos Containing Materials (ACM), which may be present, as required by Environmental Protection Agency (EPA) regulations for pre-1980 construction. The analytical results correlating with the samples that were collected as part of this Asbestos Inspection identified the presence of significantly damaged, asbestos containing bedding-mud on the east wall, which adjoins room-11 within room-10; additionally, this bedding-mud is considered friable, that which can be rendered to a power via hand pressure. Chrysotile asbestos was the type of asbestos identified in the aforementioned samples; the asbestos was also detected in 1-percent (1%) concentrations, this classifies the friable bedding-mud as a "Regulated" ACM.

Recommendations will include that the bedding-mud undergo an EPA approved point count analysis, in order to determine if the concentrations of Chrysotile asbestos can be quantified as less than-1% (<1%), therefore rendering the bedding-mud "Non-Regulated." Should the point count analysis not identify the bedding-mud to be non-regulated, recommendations will then include that all friable ACM be abated, due to the significantly damaged condition of the material. The abatement and disposal of regulated ACM are required to be treated as regulated response actions covered by EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations. Additionally, the abatement of this material must be accomplished by an Oklahoma Department of Labor (ODOL) Licensed, Asbestos Abatement Contractor, to ensure that Occupational Safety and Health Administration (OSHA) and EPA compliant methods are utilized. Furthermore, A NESHAP notification and Project Design are required to be submitted prior to the commencement of abatement activities whenever the quantities of ACM are greater than 160-square feet, 260-linear feet or 35-cubic feet. NESHAP notification and Project Design are required to be submitted prior to the commencement of abatement activities.

The remainder of this Report includes the Sampling Strategy, the Findings, Conclusions and Recommendations, Limitations of the Survey, the Regulatory Review and the Appendix to this Report.

SAMPLING STRATEGY

Each accessible area throughout the Armory was systematically inspected in order to collect samples of building materials suspected of containing asbestos. The sample collection process includes identifying the type of material suspected of containing asbestos, identifying the location of the material, the condition of the material, the potential for disturbance and the quantity. Suspect ACM that are uniform in color and texture and believed to be applied during the same period are described as "Homogenous". An adequate number of samples are collected from homogenous materials, and if laboratory analysis determines that the material contains asbestos, the entire homogenous material is considered an ACM. These procedures are thoroughly documented for assisting, if necessary, with the development of appropriate response actions.

The following are examples of the types of building materials that were visually inspected and sampled during this Asbestos Inspection.

Surfacing Materials

 Examples include blown on or toweled on material, typically observed on ceilings, structural steel, concrete ceilings or metal pan decks.

Thermal System Insulation

 Examples include piping, hot and cold water lines, Heating Ventilation and Air Conditioning (HVAC) equipment and components, boilers, steam lines or heated thermal processes.

Miscellaneous Materials

• Examples include floor tiles, mastics, ceiling tiles, vinyl sheet flooring, sheetrock, sheetrock-tape, sheetrock-mud or joint compounds.

Each sample collected was submitted for analysis in accordance with the EPA authorized Method: 600 49 Code of Federal Regulations (CFR) Part 61 Subpart M, Asbestos NESHAP Rules. "Asbestos Containing Materials" are any materials, which consist of >1% asbestos, as defined by the EPA Approved Analytical Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix C, referred to as: "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

FINDINGS

The Pawhuska Armory is located at 823 East 8th Street in Pawhuska, Oklahoma. The Armory was constructed in approximately 1938. The Armory is a single-story structure with a lower level area that was utilized as an Indoor Firing Range (IFR). The Armory was constructed on a concrete slab with a brick exterior and a partial flat and domed roof. The analytical results associated with the friable, bedding-mud samples that were collected from the east wall that adjoins room-11 within room-10 discovered Chrysotile asbestos in 1% concentrations, this classifies the friable bedding-mud as a regulated ACM unless the asbestos quantities are identified as <1% via point count analysis.

The table below summarizes the type of material sampled, the sampling location and the analytical result, and the subsequent table lists the homogenous areas that were established during this Inspection and their estimated quantities. Chain of custody forms, specific sampling locations and associated analytical results are provided in the Appendix of this Report.

TABLE I: ASBESTOS CONTAINING MATERIALS

SAMPLE	SAMPLE	SAMPLE	% ASBESTOS	TYPE OF	TYPE OF	CONDITION
IDENTIFICATION	DESCRIPTION	LOCATION		ASBESTOS	MATERIAL	OF MATERIAL
0004-012510-07	Bedding-Mud	Room-10 North Area of East Wall	1%	Chrysotile	Surfacing	Significantly Damaged

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	SAMPLE LOCATION	% ASBESTOS	TYPE OF ASBESTOS	TYPE OF MATERIAL	CONDITION OF MATERIAL
0004-012510-08	Bedding-Mud	Room-10 South Area of East Wall	1%	Chrysotile	Surfacing	Significantly Damaged
0004-012510-09	Bedding-Mud	Room-10, Center of East Wall	1%	Chrysotile	Surfacing	Significantly Damaged

TABLE II: HOMOGENOUS AREAS

SAMPLE LOCATION		TOTAL QUANTITY
Room-10 East Wall (Adjoins Room-11)	Bedding-Mud	~168-feet ³

HISTORICAL OVERVIEW OF ASBESTOS ACTIVITIES

Historical records were not provided for review nor was there evidence or information that would suggest that a prior asbestos inspection occurred.

CONCLUSIONS AND RECOMMENDATIONS

- The bedding-mud samples are recommended to undergo point count analysis in order to quantify the asbestos concentrations, and in an effort to render the bedding-mud nonregulated.
- 2. Should the point count analysis not determine that the bedding-mud is non-regulated, recommendations will then be to abate all asbestos containing, friable, bedding-mud due to the significantly damaged condition of the material.
- 3. The abatement and disposal of regulated ACM are required to be treated as regulated response actions covered by EPA NESHAP regulations.
- 4. The abatement of this material must be accomplished by an ODOL Licensed, Asbestos Abatement Contractor, to ensure that OSHA and EPA compliant methods are utilized.
- A NESHAP notification and Project Design are required to be submitted prior to the abatement of the bedding-mud due to the quantities meeting and exceeding the EPA threshold.
- 6. The NESHAP notification is required to be submitted to the Oklahoma Department of Environmental Quality (ODEQ) 10-business days prior to the commencement any demolition activities.
- 7. Any activities that would disturb the bedding-mud are required to be performed by an ODOL Licensed, Asbestos Abatement Contractor.

LIMITATIONS OF SURVEY

This Asbestos Inspection was limited to certain aspects of the building construction; these limitations may have restricted or prevented the complete inspection of hidden or inaccessible building materials; therefore, inaccessible building materials were not inspected. Furthermore, locations presenting a hazard to bystanders or the Inspector were not assessed.

The findings within this Report are valid as of the date this Asbestos Inspection was performed; however, changes in the conditions of a property may certainly occur with the passage of time, whether due to natural processes or the works of man. Additionally, changes in applicable or appropriate standards may also occur, possibly resulting from legislation or the expansion of knowledge.

Our Investigation was performed using the degree of care and skill ordinarily exercised by professional consultants under similar circumstances practicing in this or similar localities. Professional services have been performed; results associated with this Asbestos Inspection were obtained and reported in accordance with generally accepted principles and practices. No other representations either expressed or implied are made; thus, Marshall Environmental Management, Inc. is not responsible for independent conclusions, opinions, or recommendations made by others. It should also be noted that as-built plans were not available for review or use in the planning of this Asbestos Inspection.

REGULATORY REVIEW

Prior to 1980 asbestos was commonly utilized during construction, in addition to being found in various building materials. In 1994, OSHA required employers to identify ACM in pre-1980 construction as part of its Standard for Occupational Exposure to Asbestos in Construction (29 CFR 1926.1101). This OSHA standard covers maintenance, repair and removal functions involving ACM or Presumed ACM (PACM). Without Asbestos Inspections, owners and/or operators must treat suspected ACM as asbestos. The ODOL defines an ACM as any material that contains asbestos in concentrations of 1% or greater, whereas the EPA definition is any material that contains concentrations of asbestos >1%.

The ODOL regulates the Hazard Communication requirements for public employees as part of the ODOL Public Employees Occupational Safety and Health (PEOSH) Program. The State of Oklahoma Hazard Communication Standard (HAZCOM), revised as of August 2006, is provided in the Oklahoma Asbestos Control Act (OAC) 380 Chapter 45. http://www.ok.gov/odol/documents/Asbestos law rules.pdf

Specific provisions of the Standard (OAC: 45-15-1) address asbestos notifications and labeling requirements. The labeling requirements specify that pipe insulation and various equipment insulation containing asbestos as well as rooms where asbestos is present be provided with an Asbestos Warning Label. These labels are to be readily visible and include the following warning:

DANGER CONTAINS ASBESTOS FIBERS AVOID BREATHING DUST CANCER AND LUNG DISEASE HAZARD

Section 380:45-15-2 requires a notice to employees when ACM are used in acoustical materials on ceilings and walls; this type of ACM is referred to as Surfacing Material.

The EPA requires asbestos inspections in school buildings in grades K through 12, as part of the Asbestos Hazard Emergency Response Act (AHERA), which is authorized in 40 CFR 763.6. These AHERA requirements would only be applicable to the Pawhuska Armory in an instance where the future intentions for the structure would include school activities grades K through 12. The structure would then necessitate an Asbestos Management Plan, required by the Local Educational Authority (LEA). The AHERA inspection protocol requires a thorough sampling of all forms of friable and non-friable asbestos. The types of ACM to be assessed as part of an AHERA Inspection include:

Surfacing Materials

 Examples include blown on or troweled on material, typically observed on ceilings, structural steel, concrete ceilings or metal pan decks.

Thermal System Insulation

 Examples include piping, hot and cold water lines, Heating Ventilation and Air Conditioning (HVAC) equipment and components, boilers, steam lines or heated thermal processes.

Miscellaneous Materials

 Examples include floor tiles, mastics, ceiling tiles, vinyl sheet flooring, sheetrock, sheetrock-tape, sheetrock-mud or joint compounds.

The AHERA sampling protocol addresses the systematic sampling of each type of ACM and the identification of friable ACM, that which can be rendered to a powder by hand pressure, Category I non-friable ACM, such as floor tiles and mastic, and Category II non-friable ACM, such as cement asbestos tiles. The AHERA Inspection must also evaluate the condition and potential for the disturbance of the ACM. The condition of the ACM, good, damaged or significantly damaged, must also be determined.

In addition to AHERA, the EPA also regulates asbestos abatement during renovation and/or demolition activities. Land disposal requirements are also regulated by the EPA through State Landfill Permits. These efforts are now administered by the ODEQ Air Quality and Land Protection regulations. The ODEQ requires the filing of advance notices for any demolition or renovation activities. These notices are referred to as a NESHAP Notification. Both historical and future asbestos abatement response actions track asbestos removal to an ODEQ approved landfill on a project-by-project basis as part of this NESHAP notification process.

A NESHAP Notice is required for renovation and/or demolition whenever the quantities of ACM are greater than 160-square feet, 260-linear feet or 35-cubic feet. All required NESHAP Notifications must be submitted to the DEQ 10-business days prior to any renovation or demolition activities where asbestos is present. Instruction of how to file and comply with DEQ and NESHAP notification requirements are provided on the DEQ web site at: http://www.deq.state.ok.us/aqdnew/asbestos/index.htm

The ODOL regulates Asbestos Abatement. The ODOL Asbestos Division implements the ODOL Rules governing the abatement for friable asbestos. Under the ODOL asbestos rule, OAC 380:50, only Licensed Contractors can perform asbestos abatement, develop management plans and project designs. All abatement supervisors, abatement workers and asbestos inspectors must also be licensed by the ODOL. It should be noted that the ODOL Asbestos Rules are currently undergoing a review for pending rule change. The ODOL Rules are available on the ODOL web site at:

http://www.ok.gov/odol/

APPENDIX

CHAIN OF CUSTODY

ANALYTICAL RESULTS

HOMOGENOUS-LABELED FLOOR PLAN

DIGITAL PHOTOGRAPHS

LICENSES

1601 SW h St. Ste. A-100 Oklahoma City, OK 73159

Marshall Environmental Management, Inc. Chain (E)ustody

Project														
Project		PROJECT			П	INVOICE TO					RE	REPORT TO		
Number 0004-AB-012510-IM	12510-JM		ਹੋ ਹੈ	Client/ State Company Depa	State of Oklahoma Department of Central Services	State of Oklahoma Department of Central Services Construction and Properties Division	5 Division	Client/ Company		Oklahoma Department of Land Protection Division	Oklahoma Department of Environmental Quality Land Protection Division	amental Quality		
Project Pawhuska Armory Name Asbestos Inspection	rmory		Au	1	Cindy Melton Administrative Programs Officer	_		Attention		Dustin Davidson				
Project 823 East 8th Street Address Pawhuska, OK 74056	Street JK 74056		Ad	Address Okla	P.O. Box 53448 Oklahoma City, OK 73152-3448			Address		707 North Robinson Oklahoma City, OK 73102	on 1K 73102			
Site Contact		Phone Number	E Z	Phone 405- Number	405-522-4805	Email	cindy, mellon@dcs.stale.ok.us	Phone Number		405-	405-702-5115	Email	duslin.davidson@deq.ok.gov	
Sample Sar	Sample Id. #	Sample Area	Location of Sas	Location of Sample (win area)		Sample Composition/Material	Sample Matrix	Sample Media	Sample Time		Calibrated	Total	Analysis/	
Collection Date (t	(field id.)	(room #1, se bedroom, lobby 1st fl., etc.)	(north wall, ceiling, under carpet, etc.)	g, under carpet,		(sheetrock, caufk, floor tile, etc.)	(Air, Aquequs, etc.)	(see legend) (s	(start/stop or duration)		Flow Rate	Volume/Area	Parameters	
1/25/2010 · P	PLM-01	ROOM-10	NORTH AREA OF EAST WALL ADJOINING ROOM-11	SAST WALL	BATTING INSULATION	LATION	BULK	N/A S	Start N. Stop N	N/A Pre N/A Post	N/A N/A	N/A	PLM ASBESTOS IDENTIFICATION	s Z
1/25/2010	PLM-02	ROOM-10	SOUTH AREA OF EAST WALL ADJOINING ROOM-11	SAST WALL	BATTING INSULATION	LATION	BULK	N/A S	Start N.	N/A Pre	N/A	N/A	PLM ASBESTOS IDENTIFICATION	\ \sigma_\times
1/25/2010	PLM-03	ROOM-10	CENTER AREA OF EAST WALL ADJOINING ROOM-11	EAST WALL	BATTING INSULATION	CATION	BULK	N/A	 	TT		N/A	PLM ASBESTOS IDENTIFICATION	S 20
1/25/2010	PLM-04	ROOM-10	NORTH AREA OF EAST WALL ADJOINING ROOM-11	SAST WALL	DRYWALL		BULK	N/A S			$\perp \perp$	N/A	PLM ASBESTOS IDENTIFICATION	S N
1/25/2010	PLM-05	ROOM-10	SOUTH AREA OF EAST WALL ADJOINING ROOM-11	SAST WALL	DRYWALL	}	BULK	N/A S		N/A Pre N/A Post	<u> </u>	N/A	PLM ASBESTOS IDENTIFICATION	S X
1/25/2010	PLM-06	ROOM-10	CENTER AREA OF EAST WALL ADJOINING ROOM-11	EAST WALL	DRYWALL		BULK	N/A	Starr N Stop N	N/A Pre N/A Post	N/A	N/A	PLM ASBESTOS IDENTIFICATION	S
1/25/2010	PLM-07	ROOM-10	NORTH AREA OF EAST WALL ADIOINING ROOM-11	EAST WALL	BEDDING-MUD		BULK	NA S	Start N Stop N	N/A Pre	N/A	NA	PLM ASBESTOS IDENTIFICATION	S N
1/25/2010	PLM-08	ROOM-10	SOUTH AREA OF EAST WALL ADIOINING ROOM-11	EAST WALL	BEDDING-MUD		BULK	N/A	Start N	N/A Pre N/A Post	N/A N/A	N/A	PLM ASBESTOS IDENTIFICATION	S N
1/25/2010	PLM-09	ROOM-10	CENTER AREA OF EAST WALL ADJOINING ROOM-11	EAST WALL	BEDDING-MUD		BULK	N/A	Start N Stop	N/A Pre	N/A H	NA	PLM ASBESTOS IDENTIFICATION	SS NO
1/25/2010	PLM-10	ROOM-10	NORTH AREA OF EAST WALL ADJOINING ROOM-11	EAST WALL	BEDDING-TAPE	3	BULK	NA NA	Start N Stop	N/A Pre N/A Post	N/A N/A	N/A	PLM ASBESTOS IDENTIFICATION	SON
Samples Collected JAM	JAMIE MARSHALL		Date	1/25/2010	Samples Refinitished By			(print)				Method of Shipment		
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Samples Received By		(print)	(print) Date		Samples Relinquished By			(print)	Date			Sample Notes	ites N/A	े 10 िञ्जा
Generalso		(print)			Complete			(print)				Condition Upon Receipt	Upon ACCEPTABLE	id .
Received By		ນຄືເຮ)	(signature) Time		Relinquished By			(signature)	ture) Time			Furn-Around- Time	und- STD	

Sample Media	edia
Micro-Vacuum	MV
Mold Plate	MP
Spore Trap	ST
Swab	SW
Tane-Lift	I

Polarized Light Microscopy PLM	russe contrast ructuscopy [CCIV]	

Furn-Around-Time	5-7 Business Days	Next Day	Same Day
Tum-Aro	STD	Q	SD
	Standard	Rush	Immediate

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Marshall Environmental Management, Inc. Chain Qustody

Phone: (4 16-0401 Fax: (4 181-6753 marshenv@swbell.net

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		PROJECT					INVO	INVOICE TO					R	REPORT TO		
Project Number	0004-AB-012510-3M			<u> </u>		State of Oklahoma	En .			Client		homa Depar	Oklahoma Department of Environmental Quality	omental Quality		
Г	Pawhuska Armory			1	Southard Court	Department of C	Department of Central Services Construction and Properties Division	ruction and Properti	es Division	Company		Land Protection Division	Division			
	Asbestos Inspection				Attention	andy Melton dnuinistrative P	Candy Meiton Administrative Programs Officer			Attention		Dustin Davidson				
ess ess	823 East 8th Street Pawhuska, OK 74056	ì		. ₹	Address Ol	P.O. Box 53448 Oklahoma City,	P.O. Box 53448 Oklahoma City, OK 73152-3448			Address		707 North Robinson	Son			
Site		Phone		E.	Phone	, (i)				Phone		Oklahoma City, OK 73102	OK 73102			
Contact	a Plantage	Nuraber	ner .	Z	Number 40	405-522-4805		Email cindy	cindy_mellon@dcs.state.ok.us		.	405	405-702-5115	Email	dustin,davidson@deg.ak.gov	>
ardinas	o 	E C	Sample Area	Location of Sample (w/in area)	ample (w/m at	rea)	Sample Composition/Material	tion/Material	Sample Matrix	Sample Media	Sample Time	Time	Calibrated	Total	Analysis/	
Collection Date	(field id.)	(room #1, se bed	(room #1, se bedroom, lobby 1st fl., etc.)	(north wall, ceiling, under carpet, etc.)	18, under carpe	et, etc.)	(sheerrock, caulk, floor tile, etc.)	floor tile, etc.)	(Air, Aqueous, etc.)	(See legend)	(start/stop oz duation)	(uoman)	Flow Rate	Volume/Area	Parameters	
1/25/2010	PLM-11	ROOM-10		SOUTH AREA OF EAST WALL	EAST WALL		BEDDING-TAPE		BULK	N/A	Start]	N/A Pre	N/A	372	PLM ASBESTOS	SC
		-									Stop	N/A Post	at N/A	V.	IDENTIFICATION	NO
1/25/2010	PLM-12	ROOM-10		CENTER AREA OF EAST WALL ADJOINING ROOM: 11	EAST WALL		BEDDING-TAPE		BULK	N/A	Start	N/A Pre	N/A	4/2	PLM ASBESTOS	SO
				No.	11.4						Stop	N/A Post	N/A	V.	IDENTIFICATION	NO
1/25/2010	PLM-13	ROOM-10		NORTH AREA		PIP	PIPE INSULATION		BULK	N/A	Start	N/A Pre	N/A	N/A	PLM ASBESTOS	So
		-									Stop	N/A Post	st N/A	TAT.	IDENTIFICATION	NO
1/25/2010	PLM-14	ROOM-10		SOUTH AREA		PIP	PIPE INSULATION		BULK	N/A	Start	N/A Pre	N/A	NA	PLM ASBESTOS	So
						-					Stop	N/A Post	M/A		IDENTIFICATION	No
1/25/2010	PLM-15	ROOM-10		CENTER AREA		PIP	PIPE INSULATION		BULK	N/A	Start	N/A Pre		N/A	PLM ASBESTOS	SO
											Stop	N/A Post	t N/A		IDENTIFICATION	NO.
1/25/2010	PLM-16	ROOM-16		CENTER OF CEILING	ŊĠ	CE	CEILING TILE		BULK	N/A	Start	N/A Pre	N/A	A/N	PLM ASBESTOS	So
						-					Stop]	N/A Post	st N/A		IDENTIFICATION	NO.
1/25/2010	PLM-17	ROOM-18		EAST AREA OF CEILING	:ILING	13.1	1'x'' CEILING TILE		BULK	N/A	Start	N/A Pre	N/A	AUV	PLM ASBESTOS	so
	+										Stop	N/A Post	st N/A		IDENTIFICATION	NO
1/25/2010	PLM-18	ROOM-18		WEST AREA OF CEILING	ELING	1,x]	1'x1' CEILING TILE		BULK	N/A	Start	N/A Pre	N/A	N/A	PLM ASBESTOS	so
											Stop	N/A Post	st N/A		IDENTIFICATION	NO
1/25/2010	PLM-19	ROOM-18		CENTER OF CEILING	NG	<u>*</u>	1'x1' CEILING TILE		BULK	N/A		N/A Pre	N/A	A/N	PLM ASBESTOS	SS
											Stop	N/A Post	st N/A		IDENTIFICATION	NO.
1/25/2010	PLM-20	ROOM-20		CENTER OF CELLING	ING	2,%	2'x4' CEILING TILE		BULK	N/A	Start	N/A Pre	_	N/A	PLM ASBESTOS	os
	<		(7,554		A Property of the Property of	Stop	N/A Post	st N/A		IDENTIFICATION	NO
Samples Collected Bv	IAKHE MARSHAL	1		Date	1/25/2010	Sar	N/A Samples			(print)) Date	N/A	Ą	Method of	I. MARSHALL	
	Jan.	14	The state of the s	(Signature) Time	1700	Re	Relinquished By N/A			(signature)	tture) Time	e N/A	8	Shipment	HAND DELIVERY	
Samples	>		(print)	.) Date		Sar	Samples			(print)) Date			Sample Notes	N/A	₽J 0
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Samples			(print)	.) Date		Sar	Samples			(print)) Date			Receipt	ACCEPTABLE	
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Phase Contrast Microscopy	Polarized Light Microscopy				
edia	MV	MP	ST	S.W	TL
Sample Media	Micro-Vacuum	Mold Plate	Spore Trap	Swab	Tape-Lift

PCM

	Turn-Aro	Turn-Around-Time
Standard	STD	5-7 Business Days
 Rush	QN	Next Day
Immediate	SD	Same Day

	Turn-Aro	Furn-Around-Time
Standard	STD	5-7 Business Days
Rush	QN	Next Day
Immediate	SD	Same Day

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Chain Custody Marshall Environmental Management, Inc.

Project 0004-AB-012510-JM Number Project Pawhuska Armory Name Asbestos Inspection Project 823 East 8th Street Address Pawhuska, OK 74056 Site	rrougel		-			-						
				INVOICE TO		-			RE	REPORT TO		
	4		Client/ State of C	State of Oklahoma Department of Central Services Construction and Properties Division	perties Division	Client/		Oklahoma Department of	Oklahoma Department of Environmental Quality	mental Quality	;	
			Attention Administrative	Cindy Melton Administrative Programs Officer		Attention		Dustin Davidson				
ite	99		Address Oldahoma City,	P.O. Box 53448 Oklahoma City, OK 73152-3448		Address		707 North Robinson Oklahoma City, OK 73102	son OK 73102			
	Phone Number		Phone 405-522-4805 Number 405-522-4805	Email	cindy melion@acs.state.ok.us	Phone		405-	405-702-5115	Email	dustin.davidson@deq.ok.gov	
Sample Sample 1d. #	# Sample Area		Location of Sample (w/in area)	Sample Composition/Material	Sample Matrix	Sample Media	Sample Time	an an	Calibrated	Total	Analysis/	
Collection Date (field id.)	(room #1, se bedroom, tobby 1st fl., etc.)	_	(north wall, ceiling, under carpet, etc.)	(sheetrock, caulk, floor tile, etc.)	(Air, Aqueous, etc.)	(see legand)	(start/stop or duration)	(notion)	Flow Rate	Volume/Area	Parameters	
1/25/2010 PLM-21	ROOM-19	CENTER OF FLOOR	OOR	12"x12" FLOOR TILE	BULK	N/A S	Start N/A Stop N/A	N/A Pre N/A Post	N/A N/A	ΝΑ	PLM ASBESTOS IDENTIFICATION	w Z
1/25/2010 PLM-22	ROOM-19	CENTER OF FLOOR	OOR	YELLOW MASTIC	BITE	N/A	Start	N/A Pre	N/A	M/A	PLM ASBESTOS	un
							Stop N.	N/A Post	L N/A	UNI	IDENTIFICATION	ž
1/25/2010 PLM-23	ROOM-18	CENTER OF PLOOR	OOR	12"x12" FLOOR TILE	BULK	N/A S				N/A	PLM ASBESTOS	so 2
0100/36/1							Start	N/A Pre	N/A		oomone a real	;
47-IATT	NOCINI-18	CENTER OF PLOOR	OOK	YELLOW MASTIC	BULK	N/A	Щ.		-	N/A	IDENTIFICATION	, <u>z</u>
1/25/2010 PLM-25	8 ROOM-17	CENTER OF FLOOR	OOR	12"x12" FLOOR TILE	BULK	N/A S	Start N. Stop N.	N/A Pre N/A Post	N/A N/A	N/A	PLM ASBESTOS IDENTIFICATION	υZ
1/25/2010 PLM-26	S ROOM-17	CENTER OF FLOOR	OOR	YELLOW MASTIC	BULK	N/A	-	N/A Pre	N/A	N/A	PLM ASBESTOS IDENTIFICATION	υz
								Т	1			
1/25/2010 PLM-27	7 ROOM-19	CENTER OF CELLING	TEING	CEILING TILE	BULK	N/A	Start N Stop N	N/A Pre N/A Post	NA NA	N/A	PLM ASBESTOS IDENTIFICATION	s Z
1/25/2010 PLM-28	ROOM-1	CENTER OF NORTH WALL	RTH WALL	DRYWALL	RITIK	V/N	Start	N/A Pre	N/A	N/A	PLM ASBESTOS	S
1	_						Stop N	. N/A Post	t N/A		IDENTIFICATION	Z.
1/25/2010 PLM-29	PROOM-1	CENTER OF CEILING	ILING .	CEILING TILE	BULK	N/A	Start	N/A Pre	N/A	N/A	PLM ASBESTOS IDENTIFICATION	σZ
0195/2010	1 PROOF	OLD HOLD TO HOMESTIC	9						_		PLM ASBESTOS	
	1-Incom	CENTER OF C	or The	ORIGINAL CELLING MATERIAL	BULK	N/A	Stop	N/A Post	t N/A	V/Z	IDENTIFICATION	Z
Samples Collected JAMIE MARSHALL	ОПТИТО	(print) Date	1/25/2010	Samples N/A		(print)	Date	N/A		Method of	J. MARSHALL	
3,	1 /hr /	Time (alguature) Time	1700	Relinquished By N/A		(signature)	ure) Time	N/A		Shipment	HAND DELIVERY	
Samples		(print) Date		Samples		(print)	Date			Sample Notes	N/A	≱ 3α ≜
Received By		(signature) Time		Relinquished By		(signature)	ure) Time			Condition Upon		əgs4
Samples		(print) Date		Samples		(print)	Date			Receipt	ACCEPTABLE	
Received By		(signature) Time		Relinquished By		(signat	(signature) Time			Turn-Around-	Trs -	

Sample Media	edia
Micro-Vacuum	ΛW
Mold Plate	MP
Spore Trap	ST
Swab	AMS.
Tape-Lift	1.1

	Standard	Rush
PCM	PLM	
Phase Contrast Microscopy	Poterized Light Microscopy	

	Tum-Aro	Turn-Around-Time
Standard	STD	5-7 Business Days
Rush	QN	Next Day
Immediate	SD	Same Day

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Chain Sustody Marshall Environmental Management, Inc.

Phone: (4 7 16-0401 Fax: (4 , 381-6753 marshenv@swbell.net

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	0004-AB-012510-JM		Chent/ Company	State of Oklahoma Department of Cen	State of Oklahoma Department of Central Services Construction and Pronerties Division	ties Division	Chent		Oklahoma Department of	atment of Enviro	Oklahoma Department of Environmental Quality		
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Project 823 I	823 East 8th Street		Aridress	P.O. Box 53448	ogians onice		Address		707 North Robinson	noon			
T	Hillsha, On 74030	Dhone		Oklahoma City, OK 73152-3448	OK 73152-3448		Add Ca		homa City,	Oklahoma City, OK 73102			
Contact		Number	Phone	405-522-4805	Email cinds	cindy, melton@dcs.state.ok.us	Phone		405	405-702-5115	Email	dustin.davidson@deg.ok.gov	1
Sample	νı	Sample Area	Location of Sample (win area)	in area)	Sample Composition/Material	Sample Matrix	Sample Media	Sample Time	Time	Calibrated	Total	Analysis/	
Collection Date	(field id.)	(room #1, se bedroom, lobby 1st ff., etc.)	(north wall, ceiling, under carpet, etc.)	carpet, etc.)	(sheetrock, caulk, floor tile, etc.)	(Air, Aqueous, etc.)		(start/Stop or duration)	duration)	Flow Rate	Volume/Area	Parameters	
1/25/2010	PLM-31	ROOM-3	CENTER OF NORTH WALL		DRYWALL	BULK	N/A	Start	N/A Pre	N/A	N/A	PLM ASBESTOS IDENTIFICATION	s 2
1/25/2010	PLM-32	ROOM-4	CENTER OF NORTH WALL		New All	7 HIG				1		PI.M ASBESTO	. 8
					,	V TOO	V.	Stop	N/A Post	st N/A	V/A	IDENTIFICATION	N N
1/25/2010	PLM-33	ROOM-1	CENTER OF ROOM	חמו	DUCT INSULATION	Вик	4/N	Start	N/A Pre	N/A	112	PLM ASBESTO	SS
								Stop	N/A Post	st N/A	W.W	IDENTIFICATION	N.C
1/25/2010	PLM-34	ROOM-3	CENTER OF ROOM	Ω	DUCT INSULATION	BULK	N/A	Start	N/A Pre	N/A	N/A	PLM ASBESTOS	SS
								Stop	N/A Post	st N/A		IDENTIFICATION	Z
1/25/2010	PLM-35	ROOM-4	CENTER OF ROOM	na na	DUCT INSULATION	BULK	V/N	Start	N/A Pre	N/A	N/A	PLM ASBESTOS	SC
								Stop	N/A Post	st N/A	V.	IDENTIFICATION	Z
					-			Start	Pre				
			'				02	Stop	Post	st		:	410
							V, 1	Start	Pre				
								Stop	Post	st			
		-						Start	Pre				
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							.==-1,	Start	Pre	6			
	(Stop	Post	st			
Samples Collected	JAMIE MARSHAL		Date 1/25/2010		Samples N/A		(print)	Date	N/A	V	Method of	J. MARSHALL	
â	1 A V	Bu Dan	agnature) Time 1700	Rei	inquished By N/A		(signature)	ure) Time	N/A	¥	Shipment	HAND DELIVERY	
Samples Persional Bu		(print)	Date (San	Samples		(print)	Date			Sample Notes	s N/A	† J0 ‡
for house		ngis)	(signature) Time	Rel	Relinquished By		(signature)	ıre) Time	4.		Condition Doon		Page
Samples		(print)) Date	San	Samples		(print)	Date			Receipt	ACCEPTABLE	
received by		ານຜູ້ເຮ)	(signature) Time	Rel	inquished By		(signature)	rre) Time			Turn-Around- Time	STD -	
	4												

Sample Media	edia
Місто-Уасшип	MV
Mold Plate	MP
Spore Trap	ST
Swab	SW
Tape-Lift	11

- 1	Phase Contrast Microscopy	PCM
<u></u>	Polarized Light Microscopy	PLM

furn-Around-Time	5-7 Business Days	Next Day	Same Day
Turn-Aro	STD	QN	SD
	Standard	Rush	Immediate

	Turn-Aro	Furn-Around-Time
andard	STD	5-7 Business Days
ush	ND	Next Day
ımediate	SD	Same Day

Polarized Light Microscopy Asbestos Analysis

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J.,			I	roject Location			Invoice To			•	ort To	
e e	et Id.	0004	-AB-0	12510-JM	Client	of Central S		Client		Oklahoma Dept. o Land Protection D Dustin Davidson	ivisio	ironmental Quality n
Proje Name	t Type	Pawh	uska /	Armory	Attention	Cindy Melt Administra	tive Programs Officer	Attenti	ion			
Proje	2t		. 8th	Street OK 74056	Address	P.O. Box 5	3448 City, OK 73152-3448	Addre	55	P.O. Box 1677 Oklahoma City, C	K 731	01
Addr Site C	ontact	T	iuska,	<u> </u>	Phone #	405-522-48		Phone	#	405-702-5115		
Phone	#		-		Fax#	405-522-00	051	Fax#				
Cell#					Cell #			Ceil#				
email					email	Cindy melto	n@dcs.state.ok.us	email		dustin.davidson@deq.i	ok.gov	
\equiv	1		1	Sample Location	-	1	Sample Description	1		No Asbestos I	Detecte	d
	ᅙ	Ì		BATTING INSULATION		Color	Pink	1 7			100%	Fibrous Glass
iper i	0004-012510-JFJ-PLM-01	Date of Sampling	010	NORTH AREA OF EAST W		Condition	Good		_			
Lab Log Number		Sam	January 25, 2010	IN ROOM-10		Туре	Miscellaneous					
Ž	1351(te of	uary	ADJOINING ROOM-11		Note						
La	94-0	ğ	'ag		··	1		1				
l	8					 						
		-		Sample Location			Sample Description	<u>'</u>		No Asbestos I	Detecte	d
	Ċ,	ŀ		BATTING INSULATION		Color	Pink	1 1			100%	Fibrous Glass
. per	PL.M	.ii	010	SOUTH AREA OF EAST WA		Condition	Good					
2	Ė	iam p	25, 2	IN ROOM-10		Туре	Miscellaneous	1				
Lab Log Number	2510	Date of Sampling	January 25, 2010	ADJOINING ROOM-11		Note						
Lab	0004-012510-JFJ-PLM-02	Ď	'E	ADJORANG ROOM-11						-		···
	8					 	<u> </u>				-	
				Sample Location			Sample Description	 '		No Asbestos I	Detected	<u>. </u>
	Ş			BATTING INSULATION		Color	Pink	1				Fibrous Glass
5.57	0004-012510-JFJ-PLM-03	ling	010	CENTER OF EAST WALL		Condition	Good	+				
Lab Log Num	14	Date of Sampling	January 25, 2010	IN ROOM-10		Туре	Miscellaneous	1				
L _{og}	2510	Sign	uary	ADJOINING ROOM-11		Note	1413ccitaticous	1				
La	5	Dat	Jan	ADJOINING ROOM-11		11000	· · · · · · · · · · · · · · · · · · ·		-			
	8											
				Sample Location		 	Sample Description	 '		No Asbestos I	Detected	<u> </u>
	\$			DRYWALL		Color	White	1			10%	Cellulose
lumber	FI-PLM-04	fing	010	NORTH AREA OF EAST WA	.T.I	Condition	Significantly Damaged	1			90%	Calcareous Material
Nun	Ë	amp	25, 2	IN ROOM-10		Тура	Miscellaneous	 				
Lab Log N	0004-012510-J	Date of Sampling	January 25, 2010	ADJOINING ROOM-11		Note						
La.	74-01	Dat	Ę									
	8		ŀ									
				Sample Location			Sample Description			No Asbestos I	Detected	i
	-05		İ	DRYWALL		Color	White				10%	Cellulose
per	PLM	pling	2010	SOUTH AREA OF EAST WA	LL	Condition	Significantly Damaged				90%	Calcareous Material
ab Log Number	0004-012510-JFJ-PLM-05	Date of Sampling	22.1	IN ROOM-10		Туре	Miscellaneous		•			
			January	ADJOINING ROOM-11		Note	· · · · · · · · · · · · · · · · · · ·					
<u> </u>	90-0	Dad	4									
	8	}	ŀ		7	<u> </u>	00					
						\rightarrow	2	<u> </u>		,		-
			Ja	mie Marshall	/lamie	Marshall, B.S., Industrial Hygiene Associate				February	15, 20	10
			Anal	yst Name (Print)	Janne		alyst Signature				nalyzed	
Test N	lethod	40 C	FR Ch	apter I, Part 763, Subpart F, Appendi	x A, "Interin	n Method for	determination of Asbestos in Bulk Is	sulatio	n San			ccreditation:
πi	zed Li	gnt Mí	crosco	py (PLM), US EPA 600/M4-82-020	1982.						AIHA	PAT ID# 102334

ITEMI SHOULD EVER VER WIRTHE CARE IT ASSUMES CARES ON A ACCOUNT

Polarized Light Microscopy Asbestos Analysis

Sample Location DRYWALL CENTER OF EAST WAL IN ROOM-10 ADJOINING ROOM-1	Client Attention Address Phone # Fax # Cell # email	of Central Cindy Mel Administra P.O. Box 5 Oklahoma 405-522-4	ton htive Programs Officer 3448 City, OK 73152-3448 805	Client Attenti Address Phone Fax # Cell #	Land Protect Dustin David P.O. Box 16' Oklahoma C	ion Divisio Ison 77 ity, OK 73	· · · · · · · · · · · · · · · · · · ·	
Sample Location DRYWALL CENTER OF EAST WAI	Address Phone # Fax # Cell #	Cindy Mel Administra P.O. Box 5 Oklahoma 405-522-4	ton htive Programs Officer 3448 City, OK 73152-3448 805	Addres Phone Fax #	Dustin David P.O. Box 163 Oklahoma C	Ison 77 ity, OK 73	· · · · · · · · · · · · · · · · · · ·	
Sample Location DRYWALL CENTER OF EAST WAI	Address Phone # Fax # Cell #	P.O. Box 5 Oklahoma 405-522-4 405-522-0	3448 City, OK 73152-3448 805	Phone Fax#	S Oklahoma C	ity, OK 73	101	
Sample Location DRYWALL CENTER OF EAST WAI	Phone # Fax # Cell #	405-522-4	805	Phone Fax#	Окталопа С		101	
DRYWALL CENTER OF EAST WAI IN ROOM-10	Fax #	405-522-0	051	Fax#	# 403-702-311			
DRYWALL CENTER OF EAST WAI IN ROOM-10	Cell #							
DRYWALL CENTER OF EAST WAI IN ROOM-10	+	Cindy melto	n@dcs.state.ok.us	Cell#	ļ.			
DRYWALL CENTER OF EAST WAI IN ROOM-10	email	Cindy melto	n@dcs.state.ok.us		1			
DRYWALL CENTER OF EAST WAI IN ROOM-10		T	email Cindy melton@dcs.state.ok.us			@deq.ok.gov	aq,ok.gov	
DRYWALL CENTER OF EAST WAI IN ROOM-10		Sample Description .			No Asbestos Detected			
CENTER OF EAST WA		Color White				10%	Cellulose	
IN ROOM-10	LL	Condition	Significantly Damaged			90%	Calcareous Material	
 		Туре	Miscellaneous					
	<u></u>	Note					<u> </u>	
	-							
Sample Location	. <u>-</u> ,,		Sample Description	- 	1% Asbest	tos Detecte	:d	
BEDDING-MUD		Color	Beige	1%	1% Chrysotile		Calcareous Material	
NORTH AREA OF EAST W	/ALL	Condition	Significantly Damaged			2%	Cellulose	
IN ROOM-10		Туре	Surfacing					
ADJOINING ROOM-1		Note					1	
Sample Location			Sample Description		1% Asbest	tos Detecte	:d	
BEDDING-MUD		Color	Beige	1%	Chrysotile	97%	Calcareous Material	
SOUTH AREA OF EAST W	ALL	Condition	Significantly Damaged			2%	Cellulose	
IN ROOM-10		Туре	Surfacing			_		
ADJOINING ROOM-1	ι ,	Note						
	· .							
							<u></u>	
Sample Location		<u> </u>	Sample Description		1% Asbestos Detected			
BEDDING-MUD		Color	Beige	1%	Chrysotile		Calcareous Material	
CENTER OF EAST WAL	.L	Condition	Significantly Damaged			2%	Cellulose	
IN ROOM-10		Туре	Surfacing			 -		
ADJOINING ROOM-11		Note	<u> </u>					
			Sample Description		No Ashe	estos Detecte	d	
Sample Location BEDDING-TAPE		Color	Beige	- 	1101100		Cellulose	
NORTH AREA OF EAST W	ALL	Condition	Significantly Damaged					
IN ROOM-10		Туре	Miscellaneous			_		
ADJOINING ROOM-11		Note		1		-		
ADJOINING ROOM-11							·	
	$\overline{}$	 		\neg				
	7/ \	1 /		1				
	Jamie	nie Marshall B-S Industrial Haviene Associate			February 15, 2010			
nie Marshall	▶ Jappie				Date Analyzed			
	BEDDING-TAPE NORTH AREA OF EAST WAI IN ROOM-10 ADJOINING ROOM-11 Jamie Marshall Analyst Name (Print) Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendictived Light Microscopy (PLM), US EPA 600/M4-82-020				t Name (Print) Analyst Signature oter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation	t Name (Print) Jarkie Marshall B.S., Industrial Hygiene Associate t Name (Print) Analyst Signature Depart 7, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using	t Name (Print) Analyst Signature Date Analyze	

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159 Phone (405) 616-0401 Fax (405) 681-6753 marshem/@swbeil.net

	Project Location						Invoice To	T		Repo	rt To	
	_~-	2224			CU_4	State of Ok	lahoma Department	Client		Oklahoma Dept. o	f Envi	ronmental Quality
,ec		0004-	AB-U	12510-JM	Client	of Central S Cindy Melt	Services	┼		Land Protection D Dustin Davidson	ivisto	1 ·
Projec Name	Type			Armory	Attention	Administra	tive Programs Officer	Atten	ion	P.O. Bex 1677		
	Project Project Pawhuska, OK 74056 Address Pawhuska, OK 74056 Address Pawhuska, OK 74056		3448 City, OK 73152-3448	Addre	95	Oklahoma City, OK 73101		01				
	Site Contact Phone #		Phone #	405-522-48	05	Phone	#	405-702-5115				
Phone	#			-2424	Fax#	405-522-00	51	Fax #				
Cell #					Cell #	 		Cell #				<u> </u>
-					email	Cindy malfo	n@dcs.state.ok.us	email		open@nozbivsb.ndeg.o	k.gov	
email		L			leinan	Candy meto	ng dos.stato.ok.do	1				
	9			Sample Location			Sample Description		г	No Asbestos E	Detected	
늉	I-H	en en		CEILING TILE		Color	Brown/Tan	ļ				Fibrous Glass
1	F-F.	and in		CENTER OF CEILING		Condition	Good	<u> </u>				Cellulose
Z	[-6]	Sa.	7 25	IN RO OM- 16		Туре	Miscellaneous	—	<u> </u>		10%	Perlite
Lab Log Number	0004-012510-JFJ-PLM-16	Date of Sampling	January 25, 2010			Note		╀				
-	7000	_		·				┞				
					╁		No Asbestos I					
ŀ				Sample Location		ļ	Sample Description	\vdash		No Aspestos I		Cellulose
ja Per	ĽW	E	2	1'x1' CEILING TILE		Color	Brown	\vdash			10076	
Zem	Lab Log Number 0004-012510-JFJ-PLM-17 Date of Sampling	ldma	January 25, 2010	EAST AREA OF CEILING	· · · · · · · · · · · · · · · · · · ·	Condition	Good					
Log		of St	ary 2	IN ROOM-18		Туре	Miscellaneous	├-				
Lab		Date	Janu	<u>. </u>		Note			-			
	000			· · · · · · · · · · · · · · · · · · ·		 		+				
				Sample Location		 	Sample Description	\vdash		No Asbestos E	Detected	i
Lien	1-18			('xi' CEILING TILE	•	Color	Brown	1			100%	Cellulose
r e	PLIV	pling	010	WEST AREA OF CEILING	_ }	Condition	Good	1				
Lab Log Num)-JFJ	Date of Sampling	25,	IN ROOM-18		Туре	Miscellaneous					
b Log	1251	te of	January 25, 2010			Note						
La	0004-012510-JFJ-PLM-18	តិ	Ja				, <u>, , , , , , , , , , , , , , , , , , </u>					
	Ö							<u> </u>				
	_			Sample Location			Sample Description	No Asbestos Detected			1	
<u>.</u>	0004-012510-JFJ-PLM-19	50	0	I'xI' CEILING TILE		Color	Brown	<u> </u>			100%	Cellulose
Number	J-PL	niplin	5, 2010	CENTER OF CEILING		Condition	Good					
N So	10-1	f San	ry 25	IN ROOM-18		Туре	Miscellaneous	<u> </u>				
Lab Log l	-0125	Date of Sampling	January 2			Note		<u> </u>			_	
-	9004						 					
				<u>.</u> ,,				 		No Asbestos D	Natasta i	
	20			Sample Location		a .	Sample Description	\vdash		No Aspestos L	-	Fibrous Glass
per.	Ľ.	.e.	91	2'x4' CEILING TILE			Brown/Tan Good	├			-	Cellulose
Lab Log Number	0004-012510-JFJ-PLM-20	Date of Sampling	January 25, 2010	CENTER OF CEILING IN ROOM-20			Miscellaneous	├				Perlite
Log	2510-	Sjoa	uary	IN KOOWI-20		Note	Wiscensieous	 				
Lab	Date 4012		Jan			11012						
	00						0 00	 				
							7-17-14					
			Ja	mie Marshall	Jamie I	Marshall, B.	Industrial Hygiene Associate	1		February	15, 20	10
					alyst Signature			Date Ar	alyze	d		
						16.11.15	. I a mai mai ma a fi A alimento de Prosto d	- mlaei	.n Ca	aples" using	Iah ∧	ccreditation;
Test Method. 40 CFR Chapter 1, Fait 703, adoptar 1, Appoints 2, internal Method for determination of 1 to 500 and 100								PAT ID# 102334				

AIHA PAT ID# 102334

Project Location			<u> </u>		Invoice To				ort To			
ect	Id.	0004	AB-0	2510-JM	Client	State of Ol of Central	lahoma Department Services	Client		Land Protection I	of Env Divisio	ironmental Quality n
oject		Pawh	uska A	rmory	Attention	Cindy Mel	ton tive Programs Officer	Attent	ion	Dustin Davidson		
oject		823 E	E. 8th S	treet	Address	P.O. Box 5	3448	Addre	95	P.O. Box 1677 Oklahoma City, C	N 731	101
<u>dres</u>		Pawh	awhuska, OK 74056		Phone #	405-522-4	City, OK 73152-3448	Phone	#	405-702-5115	/K /J	
Site Contact		 			Fax#				, n.p.			
ne f	<u>+</u>				Fax#	405-522-0	151					<u>.</u>
l#					Cell #			Cell #	Cell #			
RiJ					email	Cindy melto	n@dcs.state.ok.us	email		dustin.davidson@deg.	ok.gov	
T				Sample Location			Sample Description			No Asbestos	Detecte	d
	M-21	bū		12"x12" FLOOR TILE		Color	Grey				<1%	Cellulose
-	J-PLJ	ւթնո	2010	CENTER OF FLOOR		Condition	Good				99%	Vinyl Aggregate
	10-JF	Date of Sampling	у 25,	IN ROOM-19		Туре	Miscellaneous					
9	0125	ate o	January 25, 2010			Note						
	0004-012510-JFJ-PLM-21	Ω	1								<u> </u>	
									L			<u> </u>
				Sample Location			Sample Description		ſ	No Asbestos I	_	1
	CM-2	. 50	ا و	FLOOR TILE MASTIC		Color ·	Yellow	\perp		<u></u>	100%	Adhesive
Lab Log Number 3004-012510-JFJ-PLM-22	FJ-PI	Date of Sampling	January 25, 2010	CENTER OF FLOOR		Condition	Good					
	질	of Sa	ary 25	IN ROOM-19		Туре	Miscellaneous					
	012	Date	Janue			Note		<u> </u>		·		
	900											
\downarrow				 		<u> </u>				NT- A-b	<u> </u>	1
. 2	}		Sample Location			Sample Description			No Asbestos I		Celiulose	
,	0004-012510-JFJ-PLM-23	ampling	January 25, 2010	12"x12" FLOOR TILE		Color	Grey					Vinyl Aggregate
	HE I			CENTER OF FLOOR		Condition	Good				9974	Villyl Aggregate
	2510	of S		ROOM-18		Type Note	Miscellaneous		-			
	401.	Date				Note						
	8					-						
+				Sample Location	- · · · · · · · · · · · · · · · · · · ·		Sample Description			No Asbestos (Detecte	<u>' </u>
İ	-24		ŀ	FLOOR TILE MASTIC		Color	Yellow				100%	Adhesive
	PLN	Date of Sampling	2010	CENTER OF FLOOR		Condition	Good					
1	EL-S	Sam		IN ROOM-18		Туре	Miscelianeous				-	
Ì	133	ite of	January 25,			Note						
	0004-012510-JFJ-PLNI-24	Ď	<u> </u>									
	ō		ļ									
T		İ		Sample Location		,	Sample Description			No Asbestos I		
	M-2	9] 。	12"x12" FLOOR TILE		Color	Grey					Cellulose
	H-E-	mplin	25, 2010	CENTER OF FLOOR		Condition	Good				99%	Vinyl Aggregate
	10-3	of Sa	lry 25	IN ROOM-17		Туре	Miscellaneous	_ _				
	0004-012510-JFJ-PLM-25	Date of Sampling	January			Note						
	900	-					4			-		
L					$\langle \cdot \rangle$	oxdot) n n					
			Jar	nie Marshall	V A	Marshall P	S, Industrial Hygiene Associate			February	15, 20	10
_			Analy	st Name (Print)	V		alyst Signature			Date A	nalyze	d
Me	thod: d Lig	40 Cl	FR Cha	pter I, Part 763, Subpart F, Appendi y (PLM), US EPA 600/M4-82-020	x A, "Interin	n Method for	determination of Asbestos in Bu	k Insulatio	n San			ccreditation: PAT ID# 102334

Marshall Environmental Management, be-1601 Southwest 89th Street, Suite A-100 Oktahona City, Oktahona 73159 Pione (445) 616-0401 Fex (405) 681-6753 marshenvarswboll.net

[P	roject Location			Invoice To			Repo	rt To	
		0004		12510-JM	Client	State of Ok	lahoma Department	Client		Oklahoma Dept. o Land Protection D		
Projec	it ld.	-			 	of Central S Cindy Melt	on	Attent	ion	Dustin Davidson	171210	<u></u>
Name	Type	1		Armory	Attention	Administra P.O. Box 5	tive Programs Officer			P.O. Box 1677		
Project Addre			. 8th S uska, 9	OK 74056	Address	Oklahoma (City, OK 73152-3448	Addre	Address Oklahoma City,)K 73101	
Site C	ontact				Phone #	405-522-48	305	Phone	Phone # 405-702-5115.			,
Phone	#	T			Fax #	405-522-00	051	Fax#				
Cell#				<u> </u>	Cell #			Ceil #				
email					email	Cindy mello	n@dcs.state.ok.us	email		dustin.davidson@deq.d	k.gov	
<u> </u>				Sample Location		T	Sample Description	T		No Asbestos I	Detecte	d
	97-1			FLOOR TILE MASTIC		Color	Yellow				100%	Adhesive
nber	0004-012510-JFJ-PLM-26	Sing	010	CENTER OF FLOOR		Condition	Good					
Lab Log Number	Ë	Date of Sampling CENTER OF FLOO IN ROOM-17			Туре	Miscellaneous						
Log	2510					Note		-				
1	1 2	Pag	, and				1	T-				_
	8					-		1				
 -		Sample Location Sample Description			•	No Asbestos i	Detecte	d				
	12.7			CEILING TILE		Color	White				50%	Fibrous Glass
i pe	P.	Date of Sampling	010	CENTER OF CEILING		Condition	Good				40%	Cellulose
Z		Sam	January 25, 2010	IN ROOM-19		Туре	Miscellaneous				10%	Perlite
<u> </u>	Lab Log Number 0004-012510-JFJ-PLM-27	e of (uary			Note		1				
Lat	 	Dad	Jar									
	8											
 	Sample Location		******		Sample Description			No Asbestos	Detecte	d ·		
ļ.—.,	82	0004-012510-JFJ-PLM-28 Date of Sampling		DRYWALL		Color	White				2%	Cellulose
r⊹e ^j	P.L.V		January 25, 2010	CENTER OF NORTH WAI	L	Condition	Good	1			98%	Calcareous Material
Lab Log Num	를	Sam	25, 2	IN ROOM-1		Туре	Miscellaneous					
l a	12510	te of	yuzay	· · · · · · · · · · · · · · · · · · ·		Note			`			
ے	<u>구</u>	D	. Ja									
İ	ŏ										<u> </u>	
				Sample Location			Sample Description			No Asbestos	Detecte	d
[4-29			CEILING TILE		Color	White		<u> </u>		100%	Styrofoam
Number	I-P.L.	Sampling	25, 2010	CENTER OF CEILING		Condition	Good	ļ.,				
ž	9.19	Sam	y 25,	IN ROOM-1		Туре	Miscellaneous					
Lab Log	0004-012510-JFJ-PLM-29	Date of S	January			Note		<u> </u>	<u> </u>	•		
_I	96	ا ۾	, i									
	0											<u> </u>
	•			Sample Location			Sample Description	.	1	No Asbestos		
. t	M-3(<u>a</u>		ORIGINAL CEILING MATER	IIAL	Color	Brown	Щ.	ļ		100%	Cellulose
nmp	3-PE	alg	201	CENTER OF CEILING		Condition	Significantly Damaged .		-			
N Bo	10-71	Sar	ıy 25	IN ROOM-I		Туре	Miscellaneous	-				
Lab Log Number	0004-012510-JFJ-PEN-30	Date of Sampling	January 25, 2010			Note		 				
ן ד	2004-	🖺	¬ [<u> </u>	ļ			
					\leftarrow		$) \cap \cap$	<u> </u>	<u></u>			<u></u>
			Ja	mie Marshall		Marshall, B.	S., Industrial Hygierie Associate			February	15, 20	010
				yst Name (Print)	Jamie		nalyst Signature			Date A	πałyze	ed .
	-										l ab d	Accreditation:
Test N	/letho	d: 40 C	FR Ch	apter I, Part 763, Subpart F, Append	ix A, "Interi	m Method fo	r determination of Asbes tos i n Bulk	insulati	on Sa	mpies using	l	•
7	zed Li	ight Mi	crosco	py (PLM), US EPA 600/M4-82-020	1704.						AIHA	A PAT ID# 102334

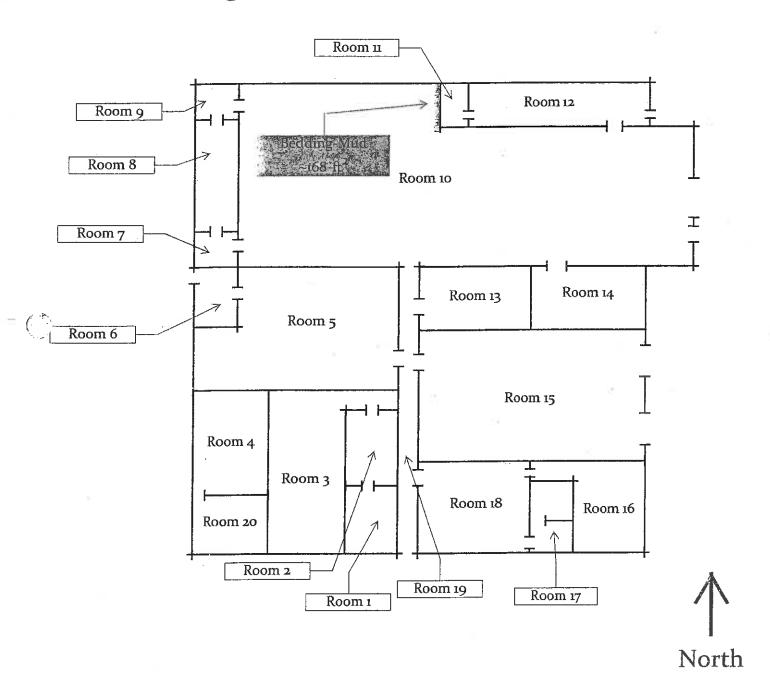
Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159 Phone (405) 616-0401 Fax (405) 681-6753 marsheny@gwbell.net

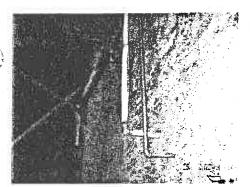
_							Invoice To	Τ_		Dane	ort To	
,				Project Location	 	IState of Ol	dahoma Department	 		Oklahoma Dept.	of Env	ironmental Quality
e		0004	-AB-0	12510-JM	Client	lof Central	Services	Client	:	Land Protection I Dustin Davidson	Divisio	n
Proje Name	t Type	Pawł	iuska .	Armory	Attention	Cindy Mel Administra	tive Programs Officer	Atten	tion			
Proje	t		E. 8th	Street OK 74056	Address	P.O. Box 5	3448 City, OK 73152-3448	Addr	:55	P.O. Box 1677 Oklahoma City, C)K 731	01
Addre Site C	ss ontact	Fawi	iuska,	OK 74030	Phone#	405-522-4		Phone	#	405-702-5115	/11 / 12 /	<u> </u>
		ļ				 	·	Fax#				
Phone	#				Fax#	405-522-0	<u>.</u>	┼				
Cell #		<u> </u>			Cell #			Cell #				
email					email	Cindy melto	n@dcs.state.ok.us	email <u>dustin.davidson@deq.ol</u>		<u>ok.gov</u>		
		-	Ι	Sample Location	·	T	Sample Description	Π		No Asbestos	Detecte	d
İ .	4-31			DRYWALL	-	Color	White		1		2%	Cellulose
Lab Log Number	14-	l iii	2010	CENTER OF NORTH WAL	L	Condition	Good				98%	Całcareous Material
로	0004-012510-JEJ-PLM-31		7.25,	IN ROOM-3		Туре	Miscellaneous					
4 2	1221	i e	January 25, 2010			Note						
ä	304-0	ے ا						Π		-		
	ŏ	i										
				Sample Location	-		Sample Description			No Asbestos I	Detected	d
١.,	4-3		_	DRYWALL		Color	White	Ι			2%	Cellulose
ad III	J-P-L	ig.	25, 2010	CENTER OF NORTH WAL	L	Condition	Good				98%	Calcareous Material
Z	Lab Log Number 0004-012510-JFJ-PLM-32	Date of Sampling	7.25,	IN ROOM-4		Туре	Miscellaneous	ĺ				
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Z	10-31	San	y 25,			Туре	Miscellaneous	١.			٠	
Lab Log Num	0125	Date of Sampling	January 25, 2010			Note		<u>L</u> .				
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Ì	., l			Sample Location			Sample Description			No Asbestos I	Detected	1
Į.	0004-012510-JFJ-PLM-34	. <u>p</u>	۰	DUCT INSULATION		Color	Pink .	ļ		<u> </u>	100%	Fibrous Glass
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Lab Log	012	Date of Sa	January			Note	<u></u> .					
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	22		ļ	Sample Location			Sample Description	ļ		No Asbestos I		
喜	LM	50	2	DUCT INSULATION			Pink	 			100%	Fibrous Glass
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			اھ]	mie Marshall	1	$\frac{1}{2}$	m DALL			February	15, 20	10
				\	, /Jahnie N		., Industrial Hygiene Associate			Date Ar		
			Analy	st Name (Print)	. V	An	alyst Signature			Jaic Al	ary ZCC	
est M	ethod: ed Lig	t Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using ized Light Microscopy (PLM), US EPA 600/M4-82-020 1982. Lab Accreditation: AIHA PAT ID# 102334										

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159 Phone (405) 616-0441 Fax (405) 681-6753 marshenv@swbell.net

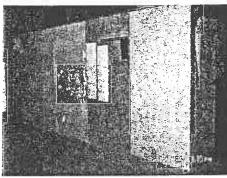
AIHA PAT ID# 102334

Pawhuska Armory Asbestos Containing Materials Homogenous Areas

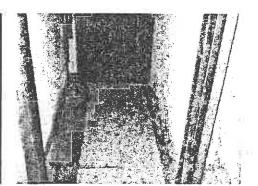




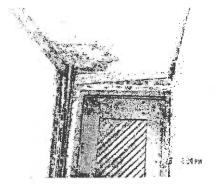
Room-10 Pipe Insulation



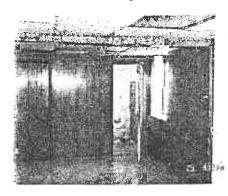
Room-10 Bedding-Mud



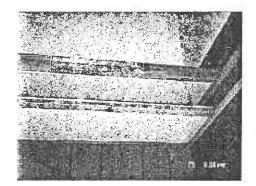
Room-16 12"x12" Floor Tile



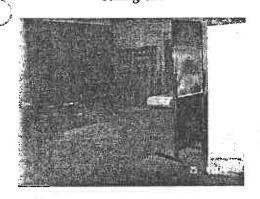
Room-16 Ceiling Tile



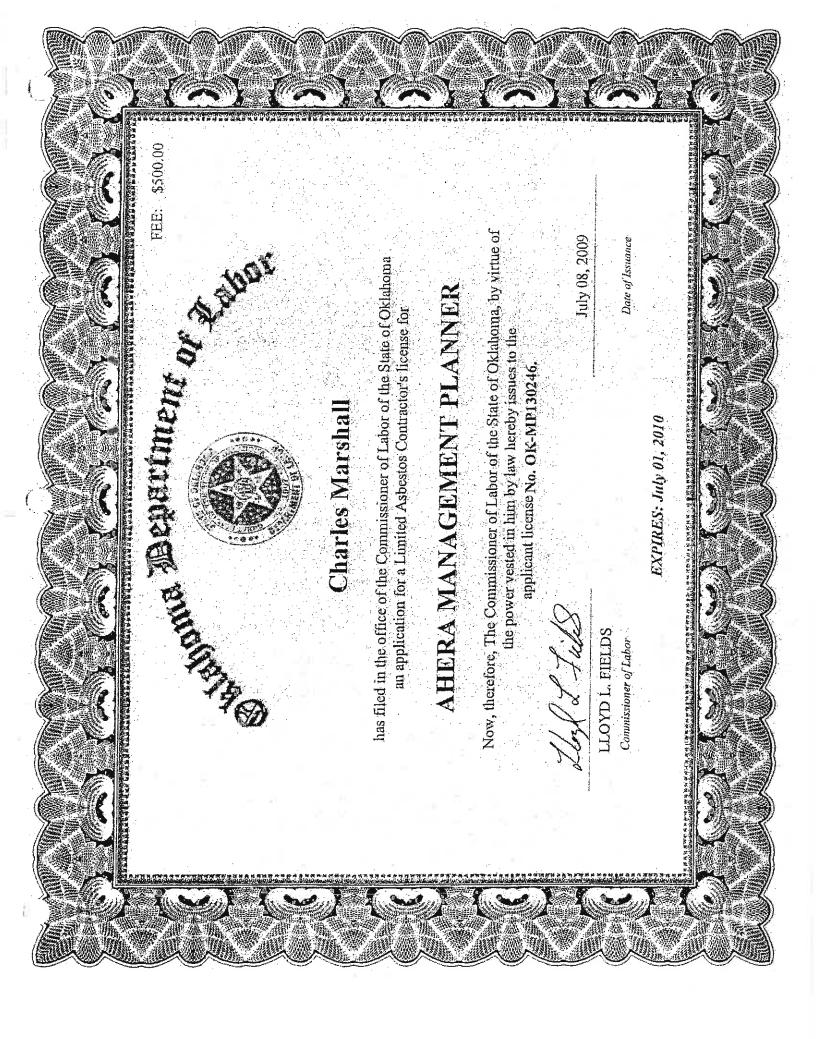
Room-18



Room-18 Ceiling Tile



Room-15





Warshall Environmental Management, Inc.
1601 Southwest 89th Street: Shife 100-A
2 Oklahoma oity Oklahoma 73:159
405-616-0401 (office) 405-681-6953 (rac)

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Report For		<u> </u>		- Flored Name Person	Pawhuska Armory AB Inspection
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Date Sampled	Januar	y 25, 2010		Date Analyzed	February 27, 2010
Sampled By	Jamie	Marshall		Analysicatelyster	Jamle Marshall
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Test Method: 40 CFR Chapter J. Pari 763, Subpart E. Appendix A Interim Method for Determination of Asbestos in Bulk.

Lab Acquaitation.

Lab Acquaitation.

Lab Acquaitation.

Microscopy.

All A PATEION 102334



Lead-Based Paint Inspection And Settled Dust Sampling

Pawhuska Armory

823 East 8th Street Pawhuska, Oklahoma 74056

January 25, 2010

DCS Contract NO.: ID009139-4

PROVIDED FOR

Oklahoma Department of Environmental Quality Land Protection Division 707 North Robinson Oklahoma City, OK 73102

PROVIDED BY

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, OK 73159

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CERTIFICATION

This is to certify, that Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection and Settled Dust Sampling within the Pawhuska Armory, for the State of Oklahoma Department of Environmental Quality, Land Protection Division. The Pawhuska Armory Lead-Based Paint Inspection and Settled Dust Sampling was performed by an Oklahoma Department of Environmental Quality Certified, Lead-Based Paint Inspector/Risk Assessor, Jamie Marshall of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall, Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling Event are believed to accurately, reflect the locations and concentrations of paint and dust containing lead.

CURRENT OWNER INFORMATION

State of Oklahoma

CERPIFIED LEAD BASED PAINT INSPECTOR/RISK ASSESSOR	
Jamije Marshall, B.S., Industrial Hygiene Associate	Date

Oklahoma Department of Environmental Quality Certification Number: OKRASR13418

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Inc.

1601 SW 89th Street, Suite A-100 Oklahoma City, OK 73159 (405) 616-0401

Oklahoma Department of Environmental Quality Certification Number: OKFIRM11160

XRF INFORMATION

Niton XLp Spectrum Analyzer Model #XLp 300A Serial #12585 Source: 40 mCi

INFORMATION REVIEWED AND APPROVED BY

Dr. Charles L. Marshall, C.I.H., C.S.P.

Date

EXECUTIVE SUMMARY

Marshall Environmental Management, Inc. performed a Lead-Based Paint Inspection (LBP), in addition to collecting samples of settled dust on January 25, 2010 within the Pawhuska Armory, located at the intersection of East 8th Street and Ruble Avenue in Pawhuska, Oklahoma. This sampling event was accomplished in order to evaluate the locations and condition of lead-based paint, in addition to identifying the concentrations of lead in lead-laden dust, which may be present, so that a strategy may be prepared for remediation and/or abatement purposes.

The analytical results associated with the samples that were collected as part of this Lead-Based Paint Inspection did identify lead-based paint on various doors, doorjambs, doorguards, stair rails, floor and wall surfaces, and roof drains throughout the Armory. Additionally, the concentrations of lead detected in the majority of the dust wipe samples that were collected from the common areas, areas outside of the Indoor Firing Range (IFR), exceeded the United States Department of Housing and Urban Development (HUD) guidelines and the Environmental Protection Agency (EPA) proposed regulations, of 40-micrograms per square foot (μ g/ft. 2).

Specific sampling locations and the analytical data related to this Inspection and Surface-Dust Sampling Event are listed in the Findings portion of this Report. The remainder of this Report includes the Sampling Methodology, the Findings, the Disclosure Statement and Owners Legal Obligation as well as information regarding lead-based paint.

SAMPLING METHODOLOGY

All painted surfaces within the Armory are representatively sampled and analyzed for lead content, excluding non-fixed and factory painted items. Various floor surfaces throughout the Armory are also sampled and analyzed for lead-laden dust. The sample collection and analysis are performed in accordance with HUD guidelines, "HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing"; and EPA proposed regulations, 40 Code of Federal Regulations (CFR) part 745.

LEAD-BASED PAINT

Painted surfaces within the Armory are sampled and analyzed for lead content by utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. Lead concentrations identified as greater than or equal to 1-milligram per square centimeter (mg/cm²) are characterized as "Lead-Based Paint." per HUD guidelines and EPA proposed regulations. The street facing side of the Armory is identified as Side A and going in a clockwise direction, the remaining sides are categorized as Side B, Side C and Side D respectively. Each door and window within the Armory is given a sequential number that corresponds with a floor plan included in the Appendix of this Report.

LEAD-LADEN DUST

Floor surfaces throughout the Armory are sampled and analyzed for lead-laden dust. According to HUD guidelines and EPA proposed regulations, analytical results with lead concentrations equal to or greater than 40-µg/ft.² represent lead contamination; this action level applies to all surfaces within the Armory excluding the IFR. In accordance with the Departments of the Army National Guard (ARNG) and the Air Force National Guard (ANG) Bureau guidelines, "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges", lead concentrations equal to or greater than 200-µg/ft.² represent lead contamination within an IFR. Samples of settled dust are collected by placing a template of a known dimension firmly against a selected surface; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each sample is then given an identification number; lastly, the wipe is placed in an approved container for transportation purposes.

FINDINGS

The analytical results associated with this Lead-Based Paint Inspection and Settled Dust Sampling did discover lead-based paint and lead-laden dust on various surfaces throughout the Pawhuska Armory. The following tables list and categorize the sampling locations and corresponding analytical results.

TABLE 1: PAINTED DOORS AND DOORJAMBS

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
I	NEGATIVE	NEGATIVE (inner) POSITIVE (outer)	N/A
2	NO PAINT	NO PAINT	N/A
.3	NO PAINT	NO PAINT	N/A
4	POSITIVE	POSITIVE	3' x 7'
5	NO PAINT	NO PAINT	N/A
6	POSITIVE	POSITIVE	3' x 7'
7	POSITIVE	POSITIVE	3' x 7'
8	POSITIVE	POSITIVE	48' x 84'
9	POSITIVE	POSITIVE	3' x 7'
10	POSITIVE	POSITIVE	3' x 7'
11	POSITIVE	POSITIVE	3' x 7'
12	POSITIVE	POSITIVE	48' x 84'
13	NO DOOR	POSITIVE	3' x 7'
14	POSITIVE	POSITIVE	3' x 7'
15	POSITIVE	POSITIVE	3' × 7'
16	NO DOOR	POSITIVE	3' x 7'
17	POSITIVE	POSITIVE	3' x 7'
18	POSITIVE	POSITIVE	3' x 7'
19	POSITIVE	POSITIVE	3' x 7'
20	NEGATIVE	POSITIVE	3' x 7'
21	NEGATIVE	POSITIVE	3' x 7'
22	NO PAINT	NO PAINT	N/A

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
23	NO PAINT	NO PAINT	N/A
24	NO PAINT	NO PAINT	N/A
25	NEGATIVE	POSITIVE	3' x 7'

TABLE 2: PAINTED MISCELLANEOUS SURFACES

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
EXTERIOR	D ₁	DOOR GUARD	METAL	BLUE
EXTERIOR	Dı	DOOR GUARD 2	METAL	BLUE
EXTERIOR	D ₁	UPPER DOOR GUARD 2	METAL	BLUE
EXTERIOR	D ₂	OVERHEAD DOOR 1	WOOD	WHITE
EXTERIOR	D ₂	OVERHEAD DOOR FRAME 1	METAL	WHITE
EXTERIOR	D ₂	OVERHEAD DOOR FRAME 2	METAL	WHITE
EXTERIOR	B	ROOF DRAIN 1	METAL	WHITE
EXTERIOR	C	ROOF DRAIN 1	METAL	WHITE
EXTERIOR	D ₂	ROOF DRAIN 1	METAL.	WHITE
EXTERIOR	В	ROOF DRAIN 2	METAL	WHITE
EXTERIOR	C	ROOF DRAIN 2	METAL	WHITE
EXTERIOR	D ₂	ROOF DRAIN 2	METAL	WHITE
ROOM 10	N/A	FLOOR	CONCRETE	YELLOW
ROOM 10	Α	STAIR RAIL	METAL	BLUE
ROOM 10	C	STAIR RAIL	METAL	BLUE
ROOM 15	N/A	FLOOR	CONCRETE	GRAY
ROOM 15	D	OVERHEAD DOOR	WOOD	GRAY
ROOM 17	С	WALL	CONCRETE	WHITE
ROOM 17	D	WALL	CONCRETE	WHITE

TABLE 3: SURFACE WIPES

LAB ID	SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
I	0005-1	ROOM 1	38.89-µg/ft ²	40-µg/ft³
2	0005-2	ROOM 2	34.87-µg/ft ²	40-μg/ft²
3	0005-3	ROOM 3	386.56-µg/ft ²	40-µg/ft²
4	0005-4	ROOM 4	25.86-µg/ft ²	40-μg/ft²
5	0005-5	ROOM 5	165.09-µg/ft²	40-µg/ft²
6	0005-6	ROOM 6	407.19-µg/ft ²	40-μg/ft²
7	0005-7	ROOM 7	603.69-µg/ft	40-µg/ft²
8	0005-8	ROOM 8	136.39-μg/ft²	40-μg/ft²
9	0005-9	ROOM 9	382.38-µg/ft ²	40-µg/ft²
10	0005-10	ROOM 10	338.86-µg/ft ²	40-μg/ft ²
11	0005-10 center	DRILL FLOOR CENTER	82.90-μg/ft ²	40-µg/ft ²
12	0005-10 east	DRILL FLOOR EAST	135.67-µg/ft²	40-µg/ft²
13	0005-10 west	DRILL FLOOR WEST	196.01-μg/ft ²	40-µg/ft²
14	0005-11	ROOM 11	32.39-µg/ft²	40-µg/ft²
15	0005-12	ROOM 12	26.56-µg/ft ²	40-µg/ft ^x
16	0005-13	ROOM 13	2448.83-µg/ft ²	40-μg/ft²

LAB ID	SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
17	0005-14	ROOM 14	535.90-µg/ft ²	40-µg/ft²
18	0005-15	ROOM 15	8206.07-μg/ft ²	40-μg/ft²
19	0005-16	ROOM 16	910.99-μg/ft ²	40-µg/ft²
20	0005-17	ROOM 17	417.57-µg/ft²	40-μg/ft²
21	0005-18	ROOM 18	82.00-µg/ft ²	40-µg/ft ²
22	0005-19	ROOM 19	179.64-µg/ft ²	40-μg/ft²
23	0005-20	ROOM 20	<12.33-µg/ft²	40-µg/ft²

Specific sampling locations, chain of custody forms, the analytical data and labeled floor plans related to this Lead-Based Paint Inspection and Surface-Dust Sampling Event are included in the Appendix of this Report.

DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Federal law requires, to the extent this facility would be covered by HUD guidelines and EPA proposed regulations, that analytical results associated with Lead-Based Paint Inspections/Risk Assessments be disclosed to prospective renters, lessees or tenants entering into or renewing a lease, or to prospective purchasers prior to obligation under a sales contract if lead-based paint is found. If the inspection finds that lead-based paint is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements. However, for dwelling units, which are being sold, not leased the owner still has certain legal responsibilities to fulfill under Federal law **even if no lead-based paint is identified.** Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from lead-based paint hazards.

Information regarding the legal obligation to disclose results associated with lead-based paint inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR, part 35 and 40 CFR, part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain HUD and EPA brochures, question and answer booklets, the regulations mentioned in this report and other information regarding lead-based paint disclosure.

APPENDIX

CHAIN OF CUSTODY FORMS &
ANALYTICAL DATA

XRF DATA

CERTIFICATES

DIGITAL PHOTOGRAPHS

LABELED FLOOR PLANS

Doors and Doorjambs Miscellaneous Surfaces Surface Wipes

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

Chain of Custody

Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

Marshall Environmental Management, Inc.

Tekel Ob Parameters Analysis/ Condition Upon Receipt anaple Notes CS in Method of Shipment REPORT TO Volume/Area Email Total 2000 X 37:00 179398 Flow Rate Calibrated Pre Post Post Post Post Post Post Post Post Pre Post Pre Pre Pre Pre Pre Pre VV start/stop or danstu Sample Time Date Start Stop Start Start Start Start Start Start Start Stop Start Start Stop Start Start Stop Stop (signature) (signature) Сотрану Attention Address Number Phone (print) (print) (print) Sample Media 3 (see legand) 7 (Aii, Aquevas, etc.) Sample Matrix CV. 333 (sheetrock. caulk, floor tile, etc.) Sample Composition/Material INVOICE TO Samples Relinquished By Samples Relinquished By 1-25-20ds (north wall, ceiling, under carpet, etc.) Location of Sample (w/in area) 2/2/10 10. Attention Address Number Phone Date Date JO05 - LBP - 012510 - 33 (signature) (prind) (print) (room #1, se bedroom, lobby 1st fl., etc.) 0005-10 Rule Armerca 0005 -9 Ang Caps-4 R. 4 Sun S 5 mg 0005 - 6 Rule 0005-7 Km7 Rin 3 0005 -5 RM 5 Rent Phone Number PROJECT S S 8- SO00 0005 - 2 0000 -3 Pawinns Ka Ocas - I Sample Id # (fleld id.) 1-25 30c Collection Date Samples Collected Sample Samples Received By Samples Received By Address Number Project Project ि 2 3 5 و. 00 0

MV S L

Micro-Vacuum

Mold Plate Spore Trap

Tape-Lift

Swab

Sample Media

Time

(signature)

Turn-Around-Time	5-7 Business Days	Next Day	Same Day	
Turn	Standard	Rush	Immediate	

Tum-Around-Time

(signature)

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Phone Number
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Spore Trap ST
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Standard	5-7 Business Days
Rush	Next Day
Immediate	Same Day

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

Chain of Custody

Phone: (405) 616-0401 Fax: (405) 681-6753

Marshall Environmental Management, Inc.

E. lo Legaq Tetal Ph Parameters marshenv@swbell.net Analysis/ Condition Upon Receipt Sample Notes Turn-Around-Time 1.8 in /2C/C Method of Volume/Area REPORT TO Total 000 79.398 Calibrated Flow Rate Pre Post Post Post Post Post Post Post P B Pre Post Pust Pre Pre 7 Sample Time (start/stop or sturatio Titoe Date Date Start Stop Start Stop Start Stop Stop Start Stop Start Stari Stop Start Stop Start Stop Start Stop (signature) (signature) Сопарацу Attention Phone Number Address (print) (print) Sample Media (see legund) (Air, Aqueous, etc.) Sample Matrix 73/7 3245 (sheetrack, caulk, floor tile, etc.) Sample Composition/Material INVOICE TO Samples Relinquished By Samples Relinquashed By Samples Relinquished By 1-25-20id (north wall, ceiling, under carpet, etc.) Location of Sample (w/in area) 20. 7 Company Utenhon Number Address Phone Date Time Tune Det 2005 - LBP - 01 25 10 - 33 (signature) (print) (print) (print) (room #1, se bedroom, lobby 1st fl., etc.) Rin 20 Arward COCIS - 19 - Rm \$9 0000 - 18 - Rus 18 Phone Number PROJECT -20-D. whask SODO Sample Id. # (field id.) 1-25-2010 Collection Date Samples Collected Sample Samples Received By Samples Received By Address Number Project Name Site 22

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Sample Media	Micro-Vacuum	Mold Plate	Spare Trap	Swab	Tape-Lift	

	5-7 Business Days	Next Day	Same Day	
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PCM

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	tandard	\u00e4ns	mmed	



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

179398

Date Received:

02/02/10

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

EC

Date of Report:

2/5/2010

AIHA ID: 101352

Client:

Marshall Environmental Management,

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Pawhuska Armory

Location:

0005-LBP-012510-JJ Project No.:

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	0005-1	Wipe	Lead	38.89	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
002	0005-2	Wipe	Lead	34.87	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
003	0005-3	Wipe	Lead	386.56	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
004	0005-4	Wipe	Lead	25.86	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
005	0005-5	Wipe	Lead	165.09	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
006	0005-6	Wipe	Lead	407.19	21.33	ug/sq. Ft.	02/03/10 10:45	EPA 3051 / NIOSH 9100
007	0005-7	Wipe	Lead	603.69	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
008	0005-8	Wipe	Lead	136.39	21.33	ug/sq, Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
009	0005-9	Wipe	Lead	382.38	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
010	0005-10	Wipe	Lead	338.86	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
011	0005-10 Center	Wipe	Lead	82.90	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently id rical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of lent and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

179398

Date Received:

02/02/10

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

Date of Report:

EC

2/5/2010

AIHA ID: 101352

Client:

Marshall Environmental Management,

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Pawhuska Armory

Location:

0005-LBP-012510-JJ Project No.:

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
012	0005-10 East	Wipe	Lead	135.67	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
013	0005-10 West	Wipe	Lead	196.01	16.00	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
014	0005-11	Wipe	Lead	32.39	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
015	0005-12	Wipe	Lead	26.56	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
016	0005-13	Wipe	Lead	2448.83	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
017	0005-14	Wipe	Lead	535.90	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
018	0005-15	Wipe	Lead	8206.07	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
019	0005-16	Wipe	Lead	910.99	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
020	0005-17	Wipe	Lead	417.57	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
021	0005-18	Wipe	Lead	82.00	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100
022	0005-19	Wipe	Lead	179.64	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently tical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of ient and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.



2033 Heritage Fark Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

179398

Date Received:

02/02/10

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:
Date of Report:

EC

2/5/2010

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Pawhuska Armory

Location: N

N/A

Project No.: 0005-LBP-012510-JJ

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
.023	0005-20	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	02/05/10 9:45	EPA 3051 / NIOSH 9100

Authorized Signature:

Eric Caves, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently citical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of dient and are not to be reproduced without specific written permission.

Juless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe naterial.

Supplemental Report QAQC Results

QA ID: Test: 7315

Lead

Date: Matrix: 2/3/2010

Wipe

Lab Number:

179398

Approved By:

Eric Caves

Date Approved: 2/3/2010

Notes:

Blank Data:

Type of Blank	Bla	ank Value
Initial		0
Continuing		0
Final		0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	225	264	275
FCV	225	258	275
ICV	22.5	23.6	27.5
RLVS	12.8	15	19.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level		% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MSW 1	0.000	5369.000	5596.000	104.2	5844.000	108.8	4.3

Supplemental Report QAQC Results

QA ID: Test: **7321** Lead

Date: Matrix: 2/5/2010 Wipe

Lab Number: Approved By: 179398 Eric Caves

Date Approved: 2/5/2010

Notes:

Blank Data:

Type of Blank	Blank Value
Initial	0
Continuing	0
Final	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	225	255	275
FCV	225	253	275
ICV	22.5	24.8	27.5
RLVS	12.8	16	19.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MSW 3	0.000	5369.000	5604.000	104.4	5839.000	108.8	4.1
MSW 2	0.000	5369.000	5860.000	109.1	5890.000	109.7	0.5
MSW 1	0.000	5369.000	5695.000	106.1	5570.000	103.7	2.2

Authorized Signature:_

Eric Caves, Analyst

		0	0				T.	_		98	10	35	35		0	v.		_	0	•	_		10				•		\$2	0									
Ter	1.10 ± 0.60		1.50 ± 0.60	< LOD : 1.95	< LOD : 1.05	< LOD: 3.67	< LOD: 3.87	6.00 ± 3.70	< LOD: 3.10	< LOD: 12.30	<1,0D : 11.10	<1,0D:10,35	< LOD: 13.35	< LOD: 3.20	1,70 ± 1,00	< LOD: 4.65	< LOD: 3.90	< LOD: 3,60	5,80 ± 3,80	<1,0D:8,70	< LOD: 1.35	< LOD : 2,46	< LOD; 6,75	< LOD: 1.20	< LOD: 0.80	< LOD : 1.96	< LOD: 5,40	< LOD: 3.90	< LOD: 11,85	< LOD: 9,30	< LOD : 1.95	< LOD: 2.42	< LOD: 1.03	< LOD : 1.92	< LOD ; 2,01	< LOD : 1.35	< LOD : 0,90	< LOD: 0,90	0000
Dia.	1.10 ± 0.10	1.10 ± 0.10	1.10 ± 0.10	< LOD: 0.12	< LOD: 0.03	< LOD; 0,13	< LOD : 0.03	< LOD: 1.20	< LOID: 0,03	< LOD: 5.85	<1.0D; 2.55	<1.00 × 11.55	< LOD: 13.50	< LOD; 0,03	0.70 ± 0.20	1.00 ± 0.60	< LOD: 0.45	< LOD: 0.73	<1.0D:2,40	<1.0D:4.05	0.70 ± 0.30	< LOD : 0.03	<1,0D;3,60	0,30 ± 0,20	< LOD : 0.90	< LOD : 0.58	< LOD : 2,85	<1.001 > 1.65	< LOD: 1,80	< LOD: 4.05	< LOD: 0.23	< LOD: 0.05	<pre>< LOD : 0.06</pre>	< LOD: 0.08	< LOD: 0,03	0,30 ± 0,14	< LOD: 0,09	< LOD: 0.05	
Pht	1.10 ± 0.10	1.10 ± 0.10	1.10 ± 0.10	< LOD : 0.12	< LOD: 0.03	< LOD : 0,13	< LOD; 0.03	6.00 ± 3.70	< LOD : 0.03	<1,00 : 12,90	< LOD: 11,10	< LOD: 10.35	< LOD; 13.35	< LOD : 0.03	0.70 ± 0.20	< LOD : 4.65	< LOD: 0.45	< LOD ; 0,73	5.80 ± 3.80	< LOD: 8.70	0,70 ± 0,30	< LOD : 0.03	< LOD: 6.75	0,30 ± 0,20	< LOD : 0.80	LOD : 0.58	< LOD : 5.40	< LOD: 3,90	< LOD: 11.85	< LOD: 9.30	< LOD : 0.21	< LOD: 0.05	< LOD : 1,03	< LOD : 0,08	< LOD : 0.03	0.30 ± 0.14	< LOD : 0.09	< LOD: 0.05	400
Results	Positive	Positive	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Positive	Negative	Negative	Positive	Negative	Negative	Positive	Positive	Negative	Negative	Positive	Negative	Negative	Negalive	Positive	r osmye	Positive	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Manage
Collog				BROWN	BLUE	grey	SILVER	BLUE	WHITE	WHITE	WHITE	WHITE	WHITE	grey	BLUE	BLUE	BLUE	BLUE	BLUE	BUUE	WHITE	WHITE	WHITE	WHILE	WHILE	WHILE	WILLIAM	WHITE	WILLE	WHITE	WHILE	silver	WHITE	WHITE	WHITE	grey	grey	WHITE	WALANTED.
anne	CALIBRATE	CALIBRATE	CALIBRATE	A I		A	A I		V 1	22 3 1		3	J	0	ت -	d 1	, d	10	-	d 1	 	- t	7 0	7 7 7	7 7	, °	4 °C	7 6	4 6	7 0	E C III 2	เมริล	0 0 000	m 5 c I	rm 5c2	m 5 c 2	rm 5 c 2	p ç mı	2 9 220
All all all all all all all all all all			THE REAL PROPERTY.	CONCRETE	CONCRETE	CONCRETE	MEIAL	METAL	MEIAL	METAL	METAL	METAL	MEIAL	METAL	MEIAL	METAL	MEIAL	METAL,	METAL	METAL	MEIAL	Meral	400M	WOOD	WOOD	META1.	METAL	META1.	METAI	CONCELTE	CONCINETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE
National Control of the Control of t			Window ledos 1	1818	ras Dibe	flag note	DOOR JAMB (201500)	DOOR	RCOF DRAIN	ROOF DRAIN	ROOF DRAIN 1	ROOF DRAIN?	DOOR	DDOR county	NOOD Seems	District Stock and Color	upper accorganate	The second second	door group	overhead door teach	overhead door	ocerhead door 1	overhead door 2	overhead door 2	overhead door 2	overhead door frame 1	overhead door frame 2	roof drain 1	roof drain 2	WALL	WA11	WALL	WALL	WALL	WALL ELOOB	FLOOR	WALL	WALL	WALL
mg/cm^2	ma fem v3	mg/cm ^2	mg/cm^2	mg/cm ^{-/2}	mg/cm ^2	ma/cm ^2	me/cm ^2	me/em~2	mg/cm^2	ma / cm v2	mg/cm^2	mag/cm ^2	ma/em ^2	ms / cm ^2	Cy way / suu	ma / cm ^3	Title / cm ^2	ty wa / sw	ma/cm v3	C, m3 / εm	mg / cm ^2	mg/cm ^2	me / cm ^2	mg/cm^2	rug / cm ^2	mg/cm^2	mg/cm^2	mg/em^2	mg/cm ^2	ing / cin ^2	mo / cm ^2	my/cm 2	mp/cm ^7	Com / Sm	me/cm ^2	mg/cm/2	7., m5 / 8m	mg / cm ^2	mg / cin ~2
2010-01-25 12:09	2010-01-25 12:10	2010-01-25 12:11	2010-01-25 12:20	2010-01-25 12:22	2010-01-25 12:24	2010-01-25 12:26	2010-01-25 12:27	2010-01-25 12:28	2010-01-25 12:30	2010-01-25 12:31	2010-01-25 12:35	2016-01-25 12:35	2010-01-25 12:37	2010-01-25 12:39	2010-01-25 12:39	2010-01-25 12:41	2010-01-25 12:41	2010-01-25 12:42	2010-01-25 12:44	2010-01-25 12:45	2010-01-25 12:45	2010-01-25 12:46	2010-01-25 12:48	2010-01-25 12:48	2010-01-25 12:49	2010-01-25 12:52	2010-01-25 12:53	2010-01-25 12:54	2010-01-25 12:55	2010-01-25 13:02	2010-01-25 13:06	2010-01-25 13:08	2010-01-25 13:09	2010-01-25 13:10	2010-01-25 13:11	2010-01-25 13-13	2010-01-25 13:15	2010-01-25 13:13	2010-01-22 12:10
344 2010-0	346	347	352	353	356	357	358	359	360	361	362	363	364	366	367	368	369	370	371	372	373	374	375	376	377	378	380	381	382	383	386	387	388	389	390	391	392	365	130
~	443		1																																				

02/17/10 15:11:04

59

61 64 65 66

57 57 58

104 107 108 109

93

8 5

80 80

PHK	<10D-180	100 1 00 1 V	1.93 (< LOD 2.04	< LOD : 1.65	1.00 ± 0.50	<lod: 1.35<="" th=""><th><1.00 × 11.35</th><th><1.0D · 1 90</th><th>V. L. O. D. 10 66</th><th>M. G. G. G. C. C. C. C. C. C. C. C. C. C. C. C. C.</th><th>100 + 050</th><th>< 100 - 3 62</th><th>< LOD : 1.65</th><th>500 - 1.00 - 1.36</th><th>5 C T OD 1.2 00</th><th>/ LOD : 1.11</th><th>5 LOD : 1.11</th><th>2 DOD : 2:30</th><th>< LOD : 21.45</th><th>< LOD : 12.00</th><th>< TOD : 1.86</th><th>< LOD : 2.45</th><th>< LOD : 2.04</th><th>< LOD: 2.18</th><th>< LOD; 4.65</th><th>< LOD ; 3,32</th><th>< LOD : 3.30</th><th>< LOD; 9.90</th><th>< LOD: 3,60</th><th><1,0D:9,60</th><th>< LOD: 9.90</th><th>< LOD : 15,15</th><th><1,000 : 19,50</th><th><1,OD:7.80</th><th>< LOD : 10.35</th><th>< LOD : 16.20</th><th><1,001 × 1,655</th><th><pre><!--OD:x30</pre--></pre></th><th><1.00 : 12.80</th><th>28 F1 - QC 1 ></th><th>2100.001×</th></lod:>	<1.00 × 11.35	<1.0D · 1 90	V. L. O. D. 10 66	M. G. G. G. C. C. C. C. C. C. C. C. C. C. C. C. C.	100 + 050	< 100 - 3 62	< LOD : 1.65	500 - 1.00 - 1.36	5 C T OD 1.2 00	/ LOD : 1.11	5 LOD : 1.11	2 DOD : 2:30	< LOD : 21.45	< LOD : 12.00	< TOD : 1.86	< LOD : 2.45	< LOD : 2.04	< LOD: 2.18	< LOD; 4.65	< LOD ; 3,32	< LOD : 3.30	< LOD; 9.90	< LOD: 3,60	<1,0D:9,60	< LOD: 9.90	< LOD : 15,15	<1,000 : 19,50	<1,OD:7.80	< LOD : 10.35	< LOD : 16.20	<1,001 × 1,655	<pre><!--OD:x30</pre--></pre>	<1.00 : 12.80	28 F1 - QC 1 >	2100.001×
DN.	<1.0D · 0.14	<10D - 0.15	C10 1 CC0	0.42 ± 0.13	< LOD : 0.07	< LOD: 0.03	< LOD: 0.13	< LOD: 7,20	< LOD: 0.03	< LOD: 3.96	< LOD: 0.20	0.08 ± 0.04	<lod: 0.19<="" td=""><td>< LOD: 0.11</td><td>0.40 ± 0.10</td><td>> (OD · 0.16</td><td>************************************</td><td>1.00.00.</td><td><100 - 736</td><td>3.70 4.3.40</td><td>0.70 H 2.40</td><td>*LOD: 0,14</td><td>< LOD : 0.18</td><td>< LOD: 0.42</td><td>< LOD: 0.17</td><td>1.60 ± 0.50</td><td>< LOD; 0.03</td><td>< LOD: 0.03</td><td>< LOD ; 7.65</td><td>2.70 ± 1.30</td><td>< LOD: 5,70</td><td>< LOD: 4.50</td><td><1.0D:9.15</td><td>< LOD: 7,20</td><td>< LOD: 3.60</td><td>< LOD; 6.15</td><td>< LOD: 6.00</td><td>0.70 ± 0,30</td><td>< LOD: 5.85</td><td>< LOD: 6.75</td><td><1.00 : 5.25</td><td>270 4 160</td></lod:>	< LOD: 0.11	0.40 ± 0.10	> (OD · 0.16	************************************	1.00.00.	<100 - 736	3.70 4.3.40	0.70 H 2.40	*LOD: 0,14	< LOD : 0.18	< LOD: 0.42	< LOD: 0.17	1.60 ± 0.50	< LOD; 0.03	< LOD: 0.03	< LOD ; 7.65	2.70 ± 1.30	< LOD: 5,70	< LOD: 4.50	<1.0D:9.15	< LOD: 7,20	< LOD: 3.60	< LOD; 6.15	< LOD: 6.00	0.70 ± 0,30	< LOD: 5.85	< LOD: 6.75	<1.00 : 5.25	270 4 160
Phc	< LOD : 0.14	< LOD: 0.15	0.22 ± 0.13	CIO = 220	/0'0 : 0'01 ×	< LOD : 0.03	< LOD: 0.13	< LOD: 7.20	< LOD : 0.03	< LOD: 3,90	< LOD: 0,20	0,08 ± 0,04	< LOD: 0,19	\$100 : 0.11	0.40 ± 0.10	< LOD: 0.16	<1,0D:1.18	<lod: 0.21<="" td=""><td>< LOD: 7.35</td><td>3.70 ± 2.40</td><td>************************************</td><td>9 9 9 9 1</td><td>\$1.05.00.18</td><td>< LOD : 0.42</td><td>< LOD: 0.17</td><td>1.60 ± 0.50</td><td>< TOD : 0'03</td><td>< LOD : 0.03</td><td>< LOD: 7,65</td><td>2.70 ± 1.30</td><td>< LOD: 5,70</td><td>< LOD: 4,50</td><td>< LOD: 9.15</td><td>< LOD: 7.20</td><td>< LOD : 3,60</td><td>< LOD: 6.15</td><td>< LOD: 6,00</td><td>0.70 ± 0.30</td><td><1.0D:5,85</td><td>< LOD: 6.75</td><td><1.00 : 5.25</td><td>370 + 140</td></lod:>	< LOD: 7.35	3.70 ± 2.40	************************************	9 9 9 9 1	\$1.05.00.18	< LOD : 0.42	< LOD: 0.17	1.60 ± 0.50	< TOD : 0'03	< LOD : 0.03	< LOD: 7,65	2.70 ± 1.30	< LOD: 5,70	< LOD: 4,50	< LOD: 9.15	< LOD: 7.20	< LOD : 3,60	< LOD: 6.15	< LOD: 6,00	0.70 ± 0.30	<1.0D:5,85	< LOD: 6.75	<1.00 : 5.25	370 + 140
Results	Negative	Negative	Nevative	Negativa	o in San in	Negative	Negative	Positive	Negative	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Nometing	Magazina	Neganve	Negative	Positive	Negative	Negative	Positive	Negative	Positive	Positive	Positive	Position								
Collor	WHITE	BUUE	grey	WHITE	To the same	WHILE	WHITE	GREY	GREY	GREY	GREY	GREY	GREY	GREY	błack	BLUE	WHITE	WHITE	WHITE	WHITE	BLUE	HI.118	BITTE	307 G	VELLOR	YELLOW	grey	grey	BLUE	BUUE	BLUE	BLUE	BLUE	grey	grey	orev						
Side	rm 14 d	m 14 d	rm 14	rm 15 a	1 \$ L	0.00	mm 15 C	rm 15 D	rm 15 D	rm 15	rm 16a	rm 16 b	rm 16 b	rm 16 c	rm 16 a	rm 17 a	rm 17 a	rin 17 b	rm 17 c	rm 17 d	rm 18 a	rm 18 a	rm 10 h	10 h	101	0.1	÷ ,-		a. ,	ey v	.	ا و	7	1	se se	ž.	ð	6	6	10	10	=======================================
Sullistratie	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	WOOD	METAL	CONCRETE	CONCRETE	CONCRETE	METAL	METAL	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	WOOD	CONCRETE	CONCRETE	METAI	METAL.	METAL	WOOR	WEER	MEIAL	METAL	MEIAL	METAL	METAL	METAL	WOOD	WOOD	WOOD	WOOD	WOOD	METAL
WAII	The second secon	window ledge	FLOOR	WALL	WALL	WALL	accu at angano	OVERLIEAD DOOR DOOR OF THE PARTY AND THE	OVERNEAL DOOR ROLL IRACK	FLOOR	WALL	WALL	pube.	labe	Window ledge	window ledge	wall	wall	wail	wall	window frame	window frame	stair	FLOOR	FLOOR	DOOR	Door iamb	DOOr iamh	1000B	1000g	DOOR tomb	SOCO jamb	DOCE	acco	WOOZ!	good James	door jamb	toor	door	door	door jamb	door jamb
mg/cm ^2		ung / cm 2	7. uic / But	mg/cm ^2	mg / cm ^2	mg / cm ^2	ma / cm ^3	ma / cm ^2	7 mg/gm	7 und / dan	2 mg/sm	2 mg/sm 2	meg/em/2	mg/cm 2	IIIB / CIII 2	1118/cm '2	mg/cm '2	Z. cuo / Sun	mg/cm/2	mg/cm ^2	mg/cm ^{^2}	mg/cm ^2	mg / cm ^2	2. mg / gm	mg/cm^2	mg/cm ²	mg/cm^2	mg/cm^2	me / cm ^2	mg/cm^2	ma / cm ^2	ma/cm ^2	mo / cm v2	mg / cm ^2	CO 110 / 3111	mg / cm ^2	2 mg/gm	The Sun S	mg/cm 'Z	mg/cm 2	z. wa / au	mg/cm ~2
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456 2010-01	457	458	450	404	460	461	462	463	464	465	466	467	469	470	473	475	476	477	478	470	4/4	490	100	482	483	484	485	486	487	488	489	490	491	492	493	464	495	496	407	708	499	ì
114	115	116	117	110	0	119	120	121	122	123	124	12.5	127	128	129	133	134	135	136	13.7	130	001	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	55	156	157	

02/17/10 15:11:04

Department of Environmental Quality

CHARLES MARSHALL

nom. nofik

INSPECTOR/RISK ASSESSOR

Certification # OKRASR13418

Issued on: 4/1/2009

Expires on 3/31/2010

July July

División Director Air Quality Division



Environmental Programs Manager Air Quality Division

Department of Environmental Quality

MARSHALL ENVIRONMENTAL MANAGEMENT

FIRM

Certification # OKFIRM11160

Issued on: 4/1/2009

Expires on 3/31/2010

Division Director
Air Quality Division



Environmental Programs Manager Air Quality Division



 $\lambda = 1000 \, \mathrm{Metal}$ Roof Drain - Side B $\mu \approx 100 \, \mathrm{Metal}$



White Metal Roof Drain - Side B #1



A shi2 - drael Door IstaM - Side A



Blue Metal Door Guard - Side D-1



White Metal Roof Drain - Side C #1



White Metal Roof Drain - Side C #2



Wood Overhead Door #1 ~ Side Da

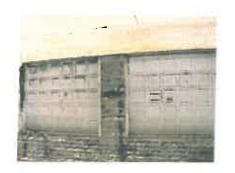


Blue Metal Door Guard #2 ~ Side D-1



Upper Blue Metal Door Guard #2 - Side D-1





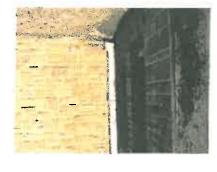




White Metal Roof Drain #2 Side D.2



Interior Wood Overhead Doors – Rm. 15 – Side D



White Metal Roof Drain #1 Side D-2



Blue Metal Stair Rail Rm. 10 - Side A



Yellow Floor Paint - Rm. 10 - Side B



White Metal Overhead Door Frame #2- Side D-2

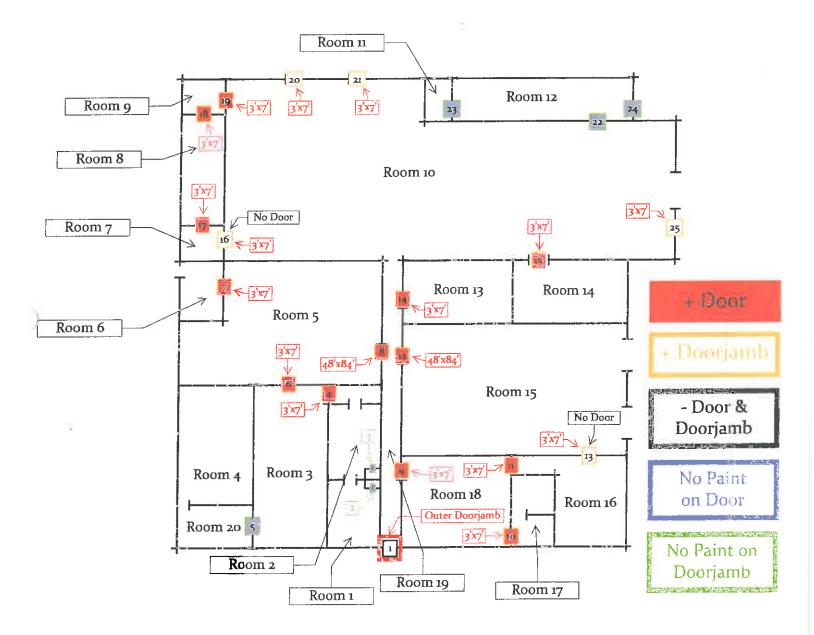


Blue Metal Stair Rail Rm. 10 - Side C



White/Grey Shower Walls – Rm. 17

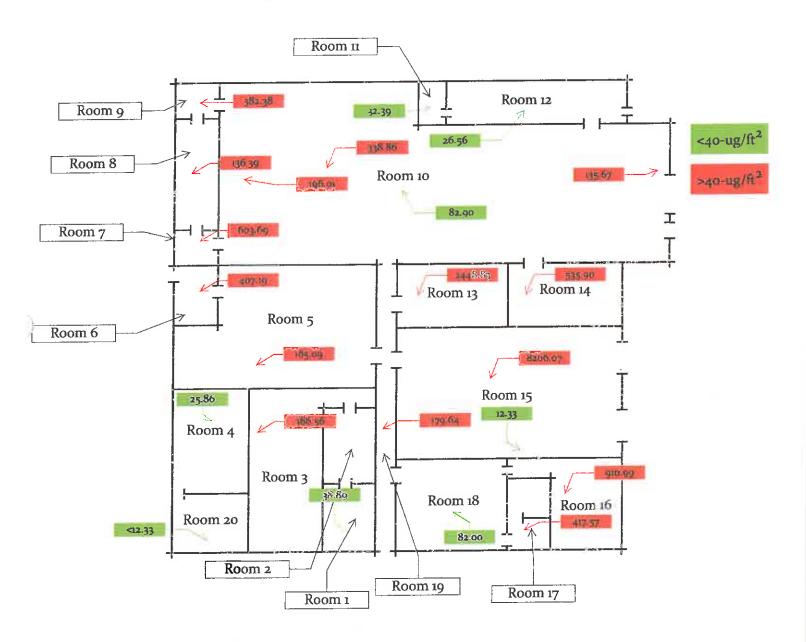
Pawhuska Armory Lead-Based Paint Doors & Doorjambs



Pawhuska Armory Lead-Based Paint Miscellaneous Surfaces

Roof Drain C Room 12 Room 9 Room 11 Door Guard Stair Rail Room 8 Floor Room 10 Room 7 Room 14 Room 13 Room 5 Room 6 Roof Drain Floor Overhead Room 15 Roof Drain Door & Door Room 2 Frame Room 19 Room 4 Room 3 Room 18 Room 16 Room 20 Wall Room 17 Room 1

Pawhuska Armory Lead-Based Paint Surface Wipes



SCOPES OF WORK

Scope of Work For

Abatement of Non-Friable and/or Non-Regulated Asbestos at The Former Perry, Pawhuska and Miami National Guard Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from licensed asbestos abatement contractors for asbestos remediation services at the former Perry, Pawhuska and Miami National Guard Armories. Qualified bidders shall follow all appropriate OSHA requirements. This scope of work (SOW) describes the non-friable and/or non-regulated asbestos containing materials (ACM) that will either be removed or left in place. The ACM to be removed shall be included in your bid.

- Friable and regulated ACM shall be removed as described in the attached project designs.
- Non-friable and / or non-regulated ACM shall be removed or left in place as described below.
- For more information on asbestos locations and quantities of asbestos to be removed, see the attached asbestos inspection reports and project designs for each armory.

Marshall Environmental will be performing oversight on this project. Once asbestos has been removed, contractor shall contact Marshall Environmental to perform the final inspection. The phone number for Marshall Environmental is (405) - 616-0401. Marshall Environmental will determine if all asbestos has been appropriately removed or if additional work needs to be performed.

The Perry Armory is located at 309 North 14th Street, Perry, Oklahoma 73077. The building **does** have available electricity but **does not** have available water to use during remediation.

The Pawhuska Armory is located at 836 East 8th Street, Pawhuska, Oklahoma 74056. The building <u>does not</u> have available electricity and <u>does not</u> have available water to use during remediation.

The Miami Armory is located at 830 D Street Southeast, Miami, Oklahoma 74354. The building <u>does not</u> have available electricity and <u>does not</u> have available water to use during remediation.

Pawhuska Armory

• Remove sheetrock from wall in Room Number 10.

Perry Armory

- Remove floor tile and mastic from Room Numbers 16, 17, 18, 19, and 34;
- Remove all sheetrock as described in the attached Perry Armory Project Design.

Miami Armory

- Remove floor tile and mastic from Room Numbers 3, 4, and 5.
- Remove mastic on flu in Room Number 1.
- Do Not Remove caulking from around all windows.
- Remove all TSI as described in the attached Miami Armory Project Design.

STATEMENT OF WORK

For

Remediation of Lead Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead contamination associated with the indoor firing range (IFR), and lead contaminated dust on the floors of the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. Sample results are attached for review (Attachment 1).

The Perry Armory building is located at <u>309 North 14th Street, Perry, Oklahoma 73077</u>. The building <u>does</u> have available electricity but <u>does not</u> have available water to use during remediation.

The Pawhuska Armory building is located at <u>836 East 8th Street</u>, <u>Pawhuska</u>, <u>Oklahoma 74056</u>. The building <u>does not</u> have available electricity or water to use during remediation.

SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within forty five (45) calendar days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEO.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through.
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor on staff in order to perform lead-based paint abatement.
- Read Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006,
 Departments of the Army and Air Force, National Guard Bureau (Attachment 4), and refer to this document as a reference and guideline for remediating IFR lead contamination.
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for indoor firing range remediation and lead dust remediation.

Submit With Bid:

- Copy of lead-based paint firm license.
- Copy of lead-based paint supervisor license.
- Three references with name, type of project, phone number, and location of similar work in the last three years.

Submit After Contract Award:

• A Work Plan with planned activities and schedule to DEQ for approval.

LEAD REMEDIATION INSTRUCTIONS

Sequence of Events

The initial cleaning of the building shall be as follows:

- 1. First -
 - Any remaining debris inside the building determined by DEQ to be trash shall be properly disposed.
 - The indoor firing range (IFR) shall be cleaned (See Section 1. Indoor Firing Range (IFR) below for details).
- 2. Second -
 - All floors of the entire building shall be cleaned (See Section 2, Remaining Building for details).

1. Indoor Firing Range (IFR)

The IFR in these buildings is a long narrow basement room with attached small side room where the Oklahoma Military Department would target practice with weapons. Sometimes the IFR will have a steel bullet deflection plate and sand trap. The IFR is to be cleaned by removal of all lead contaminated materials, including debris (if present), sand (if present), steel plate (if present), lead-based paint (if present), and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

Pre-remediation Preparation

- o To ensure cross contamination does not occur, use engineering controls such as:
 - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
 - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
 - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See Attachment 2).

Water Removal

All wash water from the IFR shall be filtered through a 1 micron filter and then sampled for total lead and total phosphorus. Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3. Wash water shall be disposed appropriately. Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility.

• Pre-remediation Removal

- o Decontaminate door to IFR side room, remove from frame, wrap in poly sheeting, and properly dispose;
- o Remove all paint from side room door frame to bare metal and paint frame with neutral colored primer;
- o Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
 - Items such as acoustical tiles, carpet, or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile, if present, will have 3 – five part composite samples taken. All other materials shall have 1 – five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

• Remediation

- o HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- O Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

• Post-remediation

- All post-remediation sampling shall be performed by Enercon Services, Inc.
 (ESI). The Contractor shall provide ESI a minimum of five (5) calendar days
 prior notice to perform sampling. See Section C (Confirmation and Clearance
 Sampling) for contact information;
- O Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
 - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;
- If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
 - Surfaces shall be thoroughly cleaned;
 - BASF Acryl 60 or DEQ approved equivalent shall be applied to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 3);
 - BASF Construction Grout or DEQ approved equivalent shall be applied (sprayed or troweled) to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 3).

- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate scalant;
 - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 3);
 - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;
- After surfaces are sealed, the Contractor shall provide ESI a minimum of five (5) calendar days prior notice to perform post remediation wipe sampling to confirm the IFR has been remediated to 40 ug/SF;
- Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;
- All re-testing of previously failed areas shall be performed by ESI. Contractor shall provide ESI a minimum of five (5) calendar day's prior notice to perform sampling.
- O The chart below summarizes the clearance numbers for the indoor firing range.
 All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

2. Remaining Building

Lead Dust Remediation (See Attachment 1)

- O Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins:
 - Remove dust from all carpet, remove carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins;
 - Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste;

- HEPA vacuum and wet wash floors of entire building:
 - O Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).
- Contact Enercon Services, Inc. to perform independent third-party post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section C (Confirmation and Clearance Sampling) for additional information;
- Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
- Lead dust and appropriate cleaning materials shall be disposed as appropriate.
- Wash Water Disposal
 - o All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
 - o The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
 - Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility;
 - o Wash water shall be disposed appropriately.

3. Disposal of Materials

Hazardous Waste

- · Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste;

Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from ESI.
- Enercon Services, Inc. (ESI) will be responsible for taking all post remediation samples.
- ESI shall be notified five (5) days prior to each sampling event.

Contact Information:

Enercon Services, Inc.

6525 North Meridian, Suite 400 Oklahoma City, Oklahoma 73116

Contact: Bill Muenker Phone: (405) 722-7693

- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

5. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
 - o A detailed summary of work including any warranties and data;
 - o copy of post remediation sampling report;
 - o waste manifests (if any); and
 - o photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in hard copy and electronically on disc.

OWNER REPRESTATIVE

Owner's Representative:

Dustin Davidson

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102

Phone Numbers:

(405) 702-5115 (Office) (405) 702-5101 (Fax)

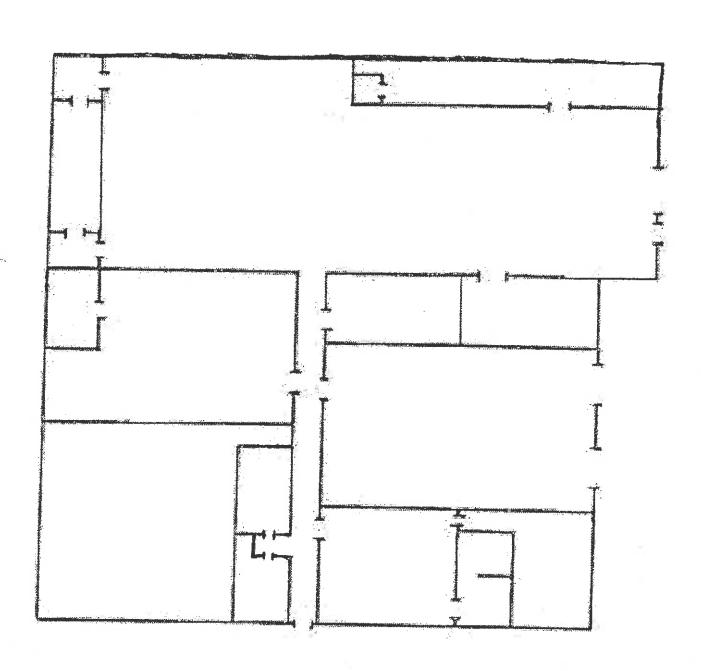
E-Mail: <u>Dustin.Davidson@deq.ok.gov</u>

ATTACHMENT 1

Sample Results and Floor Plan

PAWHUSKA ARMORY





ATTACHMENT 3

Sealant and Encapsulant Specifications

KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

KM-669 Acrylic Sealer

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS

Contact your Kelly-Moore representative for more information

Product Description

A one component, solvent borne, high gloss, clear acrylic sealer designed for use on concrete, masonry, and brick. Dustproofs concrete by penetrating surface pores leaving a tough, durable film.

Performance Features

- Non-Yellowing
- Excellent Adhesion to Concrete
- Good Water & Salt Chemical Resistance
- Good Abrasion Resistance
- Can be Sprayed, Padded or Rolled

Product Specifications

Resin Type	Acrylic
Color Range	Clear
Finish	High Gloss
Drying Time	8 hours to recoat
Practical Coverage	250-450 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 - 2.2 mils per coat
Solids By Volume	35%
Sizes	Five gallon palls
V.O.C.	560 Grams per liter
Clean Up	KM-S-74 or KM-SA-50

Surface Preparation

WARNINGI If you scrape, sand or remove old paint from any surface, you may release lead dust, LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surface Preparation:

Remove all dirt, grease, oil, soil, chemical contaminants, and other matter. Allow surface to dry.

Application Procedure:

When mixing, use an EXPLOSION PROOF SLOW SPEED DRILL WITH A JIFFY MIXER. Apply a uniform wet film, do not puddle material. Do not cover more area than can be worked in 10 minutes due to fast dry time. When spraying, use a low pressure machine. Two coats may be necessary depending on porosity or type of service.

For safety and product curing, proper ventilation is necessary throughout application and cure.

Dry Times: 8 hours

See Precautions and Limited Warranty next page

KM-669 (cont.)

Precautions

KM-669 is Flammable. KM-669 contains flammable solvents. Keep away from all sources of ignition during mixing, application, and cure. In confined areas, provide adequate forced air ventilation. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying coatings

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is fimited to the purchaser's cost of the product itself.

SEE MATERIAL SAFETY DATA SHEETS FOR FULL SAFETY PRECAUTIONS. KM-669 IS FOR PROFESSIONAL USE ONLY KM-669 IS FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

MATERIAL SAFETY DATA SHEET

For Coatings, Resins & Related Materials

Manufactured For:

Kelly-Moore Paints

Prep Date:

07/28/06

Address:

987 Commercial Street

Emergencies Involving Spills, Leaks, Fires, Exposure, Or Accident Contact

San Carlos, CA 94070

Chemtrec: 1-800-424-9300

Product Class: Acrylic Lacquer Sealer

H.M.I.S. Codes: H F R P

Trade Name: KM-669 CLEAR

2*3 0 -

Information Phone: 1-888-677-2468

Ingredient	C.A.S.#	Weight Percent	Occupt. Exp OSHA PEL	osure Limits ACGIH TLV	Vapor Pr mm Hg 8	
Acrylic Resins	Mixture	30-40	Not I	Established	Not Dete	rmined
*Xylene	1330-20-7	40-50	100 ppm	100 ppm	5.1	68
*Ethyl Benzene	100-41-4	15-20	100 ppm	100 ppm	7.1	68

*Indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

Boiling Range (Deg. F): 240°

Evaporation Rate: Slower than Ether

Percent Volatile By Volume: 70 ± 3%

Vapor Density: Heavier than air

Weight Per Gallon (lbs.): 7.75 ± .25

Flash Point (Deg. F): 80°

Lower Explosive Limit: 1.0

Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water spray

OSHA Flammability Classification: Flammable Liquid IC

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

KM-669 CLEAR

THIS PRODUCT IS FLAMMABLE

Effects Of Overexposure:

Eyes: Irritation, burning, tearing and redness.

Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact.

Ingestion: Abdominal pain, nausea, vomiting and diarrhea.

Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and

loss of consciousness.

Emergency & First Aid Procedures:

Eyes: Flush with water for 15 minutes.

Skin: Remove contaminated clothing, wash skin with soap and water. Ingestion: Do not induce vomiting. Get medical attention immediately.

Inhalation: Move to fresh air, aid breathing if necessary.

In all cases, consult a physician for best treatment.

Chemical listed as carcinogen or potential carcinogen:

NTP: No

IARC: No

OSHA: No

Stability: Product Stable

Conditions to Avoid: All sources of ignition

Incompatibility (Materials to Avoid): Oxidizing agents, strong acids & bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides and organic

compounds.

Hazardous Polymerization: Will Not Occur

Steps To Be Taken in Case Material is Released Or Spilled: Dike spill area. Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator

Ventilation: Use mechanical ventilation Protective Gloves: Neoprene or rubber Eye Protection: Chemical splash goggles

Other Protective Equipment: Protective clothing, barrier cream, eye bath, safety shower

Precautions To Be Taken in Handling & Storing; Store in dry area. Keep away from open flames and high temperatures.

Other Precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

State and Local Regulations

California Proposition 65

This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive hazards: Benzene, Toluene.



PRODUCT DATA

3 03 01 00 Maintenance of Concrete

ACRYL 60®

Water-based acrylic bonding and modifying admixture

Description

Acryl 60* is an acrylic-polymer emulsion mixed with Portland cement mortars, plasters, stucco, and concrete mixes to enhance their physical properties, achesion to substrates, and durability.

Packaging

1 quart (0.9 L) bottles 1 gallon (3.8 L) bottles 5 gallon (18.9 L) pails 30 gallon (113.5 L) drums 55 gallon (208 L) drums

Color

Mitky white

Shelf Life

1 year when properly stored

Storage

Transport and store in unopened containers between 40 and 100° F (4 and 38° C). Protect from freezing.

Features

- Acryllo polymer:
- Excellent chemical and UV resistance
- Improved freeze/thaw stability of Portland
- Stable

Benefits

Significantly improves adhesion, cohesion, tensiles, compressive, and flexural strengths of coments, based materials;

Promotes long-lasting repairs

Suitable for cold climate applications (

Will not re-emulsify when exposed to water

Where to Use

APPLICATION

- Cement-hased mixes to improve their adhesion, and durability
- As gauging liquid for Thoro* waterproofing and repair products, such as Thoroscal* and Thorite*
- Walkways
- · Ramps and structural beams

LOCATION

- Interior or exterior
- · Above or below grade

SUBSTRATE

· Columns

CONCRETE/CMU/MASONRY SURFACES

Predampen the area to be parched or coated with potable water to a saturated surface-dry (SSD) condition. Do not leave standing water on surface. Proper surface preparation and cleanliness are extremely important.

OTHER SURFACES

For other surface preparation guidelines, refer to the specific Thoros product data guide for information.

Mixina

- 1. The normal ratio of Acryl 60° to clean potable water is 1 part Acryl 60° to 3 parts water (1 to 3). Where increased physical and chemical resistance are required, increase the Acryl 60° content in the mixing liquid to a 1 to 2 or 1 to 1 Acryl 60° to water ratio (see chart above).
- 2. Always mechanically mix. Do not overmix or mix at a high speed.

How to Apply

Surface Preparation

- The methods required for preparation will vary depending on the end product to be applied and the site and substrate conditions.
- In all cases the surface must be clean and sound.
 Remove all loose and disintegrated material. Hemove any and all traces of oil, grease, dirt, dust, efflorescence, biological, mold or mildew, and release or curing agents.
- 3. Vacuum, sweep, or blow out the areas to be earched with clean, oil-free air.



Technical Data

Composition

Acryl 60* is an acrylic-polymer emulsion.

Typical Properties

PROPERTY	J. yaue J. J.
Density, ibs/gal (kg/L). Lab Method	8.65 (1.04)
Solids content, by volume, %, Lab Mathod	28
Maximum water dilution, Parts Acryl 60° to H-O, Lab Method	1:3

Test Data

The following properties are for sand/cement mortar samples:

PROPERTY	With Water	With 1 to 1 Acryl 60* and Water	
Compressive strength, pst (MPa) 28 days	3,800 (26.2)	4,500 (31)	ASTM C 109
Tensile strength, psi (MPa) 28 days	225 (1.5)	350 (2.4)	ASTM C 190
Flexural strength, psi (MPa) 28 days	1,000 (6.9)	1,800 (12.4)	ASTM C 348
Freeze/thaw durability	11 at 98 cycles	102 at 300 cycles	Method A

Test results are averages obtained under biboratury conditions at 70° F (21° C) and 50% it. Reasonable variations can be expected.

Mixing Ratios

APPLICATION For scrub coats applied before patching or overlays	Use straight Acryl 60*
To improve the adhesion properties of politting mortars and to reduce cracking in criment plaster	Use 1 part Acryl 60" to 3 parts water
For large overlays or topping	Use 2 parts Acryl 60* to 1 part water
For bonding cement plaster no thicker than 1/4 - 3/8* (6 - 10 mm)	Use 1 part Acryl 60° to 3 parts water
NOTE. The above ratios are for normal conditions. Where bonding is more critical, in A TEST PAICH IS ALWAYS RECUMMENDED.	crease the Acryl EO" corrent of fire mixing Hyuld.
For detailed application instructions for Thoro" products, see specific product data s	hests.

Application

SAND/CEMENT MORTAR

- 1. Thoroughly mix all cement and sand first. The sand must be clean, free of clay, and dry.
- 2. Make up mixing liquid from a 1 to 3 or 1 to 2. Acryl 60° water ratio depending upon requirements.
- 3. Slowly add the mixing liquid to the cement/sand mixture and mix with a slow-speed mixer for 1 2 minutes to avoid entrapping air. After preparing, cleaning, and predampening the surface, brush apply a scrub coat (not diluted) of the Acryl 60°-modified cement/sand. Scrub vigorously into the surface to displace any air pockets.
- 4. Place the mix into the scrub-coated repair area while the scrub coat is still wet or tacky. Place the mix and avoid overtroweling. The trowel should be cleaned frequently, kept wet, and used with minimal pressure.
- Maximum time for placement should not exceed 20 minutes. Higher air and surface temperatures will decrease working and placement time.

Curing

- When rapid drying is expected due to high temperatures, rapid air movement, or wind, it is recommended that the surface be covered with wet burlap to retain moisture.
- 2. For normal use, allow a 24-hour curing period.
- 3. For heavy wheeled traffic, allow a 4-day curing period.

Clean Up

Clean all tools and equipment Immediately with water. Cured material may be removed by mechanical means only.

For Best Performance

- Do not use Acryl 60° modified mixes when the
 ambient air or surface temperature is below
 40° F (4° C) or when the temperature is
 expected to fall below 40° F (4° C) within
 24 hours. High relative humidity, excessive
 moisture, and low temperatures will retard
 the curing of Acryl 60° modified mixes.
- Do not use with air-entrained cement mixes or with air-entraining admixtures.
- Do not overmix or aerate mixes.
- Use with proper ventilation.
- Do not use Acryl 60° as a surface-applied external bonding agent or as a primer.
- Do not expose coment-based mixes modified with Acryl 60° to water immersion service for a minimum of 24 hours at 73° F (23° C).
- Not recommended for exposure to soft water or immersion where contact with water treatment chemicals is present without a protective top coat.
- Caution should be used when a highly solvent material is being used over a base system that contains Acryl 60°.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to varify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

ACHYL 60*

Caution

Acryl 60* contains no hazardous ingredients as defined by 29 CFR 1910.1200 WilMIS.

Risks

May cause skin, eye or respiratory irritation. Ingestion may cause irritation.

Precautions

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container clused when not in use. OO NOT take internally. Use only with adequate ventilation. Use imporvious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Proposition 65

This product contains material listed by the state of California as known as to cause cancer, birth defects, or other reproductive harm.

VOC Content

1 g/L or 0.01 lbs/gal less water and exempt

For medical emergencies only, call Chemirec (1-800-424-9300).

BASE Construction Chemicals, LLC - Building Systems

389 Valley Park Drive Shakepee, MN, 95379

www.BuildingSystems.BASE.com

Customer Service 800-453-9517 Technical Service 800-243-6739



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PRODUCT DATA

3 03 62 13 Non-MetaNic

CONSTRUCTION GROUT

General construction, mineral-aggregate nonshrink grout

Description

Construction Grout is a noncatalyzed, multi-purpose construction grout containing mineral aggregate.

Yield

One 50 lb (22.7 kg) bag of Construction Grout mixed with 1.15 gallons (4.35 L) of water (flowable mix) provides approximately 0.45 th (0.013 m²) of mixed grout.

Packaging

50 lb (22.7 kg) multi-wall paper bags Color

Concrete gray when cured

Shelf Life

1 year when properly stored

Storage

Store in unopened hags under clean, dry conditions.

Features

Concrete gray color (after curing)

- No organic accelerators, including chlorides or other salls
- Can be extended with clean, well graded:
 coarse aggregate;
- Hardens free of bleeding when properly placed

Benefits

Blands in with surrounding concrete...

Will not corrode reinforcing steet

. Fils large volds without additional mix water s

Provides high effective bearing area for proper support and load transfer

Where to Use

APPLICATION

- Normal loads for columns and baseplates
- · Bedding grout for precast panels
- Repairing of cavities resulting from ineffective concrete consolidation
- Caulking concrete pipe
- Backfilling, underpinning foundations, and pressure grouting of slabs needing alignment
- · General construction applications
- · Damp pack applications

LOCATION

· Interior or exterior

How to Apply

Application

For angregate extension guidelines refer to Appendix MB-10: Guide to Cementitious Grouting

Mixing

By using the minimum amount of water to provide the desired workability, maximum strength will be achieved. Whenever possible, mix the grout with a mechanical mixer. Either a mortar mixer or an electric drill with a paddle device is acceptable. Put the measured amount of water into the mixer, add grout, then mix till a uniform consistency is afficiend. Do not use water in an amount or a temperature that will cause bleeding or segregation.

Curing

Cure all exposed grout shoulders by wet curing for 24 hours and by applying a recommended curing compound compliant with ASTM C 309 or preferably ASTM C 1315.

For Best Performance

- Contact your local representative for a pre-job conference to plan the installation.
- Construction Grout is designed for the 50 to 90°F (10 to 32° C) application temperature range.
 Consult your BASF representative when applying outside this range. Use cold and hot weather concreting practices (ACI 305 and ACI 306) when grouting within 10° F (6° C) of these minimum and maximum temperature ranges.
- To ensure optimum performance of Construction Grout, place at a plastic or flowable consistency and at ambient temperatures of 50° F (10° C) and above
- For test results, allow a minimum of 1° (25 mm) vertical clearance under baseplates when placing Construction Grout.
- Do not use Construction Grout where it will come in contact with steel designed for stresses above 80,000 psi (552 MPa). Use Masterflow* 816, Masterflow* 1205, or Masterflow* 1341 posttensioning cable grouts.



Technical Data

Composition

Construction Grout is a noncatalyzed hydraulic cement-based grout containing mineral aggregate.

Compliances

- CHO C 621 and ASTM C 1107, Grade C, at flowable or plastic consistency
- City of Los Angeles Research Report Number RR 23137

Typical Properties

 Mixed Grout Data* (Flowable N 	fix)
PROPERTY	WILLE TO THE STATE OF THE STATE
Approvingste Water aut (1)	1 15 (4 35)

Initial set, hrs, at 70° F (21° C)	6
Final set, hrs, at 70° F (21° C)	8

[&]quot;At a constant percent of water, combilency will vary with itempolation, Final set takes place in approximately 8 hours at a Newable consistency and 70° Fig. 1° Ct.

Test Data

PROFERTY	AESLLTS	TEST METHOLS
Flow, %, 5 drops	126 145	ASIM C230
Volume change, %, flowable consistency, after 28 days	0.08	ASTM C 1090
Compressive strength, psi (MPa)		ASTM C 942, according to ASTM C 1107

	Flowable ¹	Consistency Plastic ²	Stiff* (damp pack)
1 day	1,500 (10)	1000	=3
3 days	5,000 (34.5)	6,000 (41.4)	0,000 (55.2)
7 days	6,000 (41.3)	7,000 (48,3)	9,500 (65.5)
28 days	7,000 (48.0)	(6.85) 002,8	16,600 (69.0)

^{* 140%} It wind flow table, ASTMIC 230, 5 drops in 3 seconds

- Do not add plasticizers, accelerators, relarders, or other additives unless advised in writing by BASF Technical Services.
- The surface to be grouted should be clean, strong, and roughened to CSP 5 – 9 according to ICRI Guideline 03732 to permit proper hand, Forfreshly placed concrete, consider using Liquid Surface Etchant (see Form No. 1020198).
- Do not place Construction Grout in lifts greater than 6" (152 mm) unless the product is extended with aggregate to dissipate hydration heat.
- Where precision alignment and severe service, such as heavy loading, rolling, or impact resistance are required, use metallic-reinforced, noncatalyzed Embeco* 885 grout. If the amount of impact resistance needed is not great enough to require metallic reinforcement, use naturalaggregate, Masterliow* 928.
- The water requirement may vary with mixing efficiency, temperature, and other variables.
- The concrete surfaces should be saturated (ponded) with clean water for 24 hours before grouting. Remove water immediately before application.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.

Proper application is the responsibility of the user.
 Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

CONSTRUCTION GROUT

WARNING!

Construction Grant contains silica, crystalline quartz; portland cement; limestone; calcium oxide; gypsum; silica, amorphous.

Risks

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause imitation. Contains small amount of free respirable quartz which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

Precautions

Avoid contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If imitation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL. ATTENTION.

Waste Disposal Method

This product when discarded or disposed of is not listed as a hazardous waste in federal regulations. Dispose of in a landfill in accordance with local regulations. For additional information on personal protective equipment, first aid, and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the job site or contact the company at the address or phone numbers given below.

Proposition 65

This product contains material listed by the State of California as known to cause caricer, birth defects or other reproductive harm.

VOC Content

0 g/L or 0 lbs/gal less water and exempt solventa.

For medical emergencies only, call ChemTrec (1-800-424-9300).

BASF Construction Chemicals, LLC - Building Systems

889 Valley Park Orive Shakopee, MN, 55379

www.BuildingSystems.8ASF.com

Customer Service 800-433-9517 Technical Service 800-243-6739



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For professional use only. Not for sale to or use by the general public.

Form No. 1019(2) 8: 609 Printed on Australia purer watering 10% pool container hear. O NO PER ROLLIN USA

^{* 100%} flow on flow table, ASTM C 230, 5 drops in 3 seconds

^{* 40%} flow on link table, ASTM C 230, 5 drops in 3 seconds

Test results are averages obtained order laboratory conditions. Peasonable variations can be expected.

ATTACHMENT 4

Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges

Facilities Engineering

Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges

By Order of the Secretaries of the Army and the Air Force:

H STEVEN BLUM Lieutenant General, USA Chief, National Guard Bureau

Official:

GEORGER. BROCK Chief, Plans and Pelicy Division

History. This printing publishes a revision of NG Pam (AR) 385-16/ANGPAM 91-101.

Summary. This pamphlet prescribes policy for rehabilitation and conversion of National Guard Indoor Firing Ranges (IFR).

Applicability. This guidance applies to all persons responsible for the operation of National Guard IFRs. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted so as to ensure compliance with all applicable Federal and State laws and regulations.

Proponent and exception authority. The proponent of this regulation is Chief, NGB-SG-IH. The proponent has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation.

Suggested Improvements. Users of this paniphlet are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 222(2-3231)

Distribution. A.

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Health and Medical Aspects

- 2-1. Health Effects
- 2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)
- 2-3. Air Monitoring

^{*} This publication supersedes NP Pam (AR) 385-16/ANGPAM 91-101, dated 31 January 1994.

- 2-4. Wipe Sampling Protocol and Media
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- B. Protocol for Collecting Wipe Samples
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Giossary

3 November 2006

NGP 420-15

1-1. Purpose

This pamphlet establishes the policy and procedures for rehabilitation and conversion, of National Guard IFRs.

1-2. References

Required and related publications and referenced and prescribed forms are listed in Appendix A.

1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this publication are listed in the glossary.

1-4. Policy and Procedures

Indoor firing ranges can be safely rehabilitated or converted for other uses, such as a storage area, classrooms or office space, provided the following -

- a. Prior to conversion active ranges must be thoroughly decontaminated and cleaned to acceptable levels. All ranges converted prior to the publication date of this pamphlet, must be inspected and evaluated to determine lead contamination. This will be accomplished by a certified National Guard Industrial Hygienist (III) or a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.
- b. The lovel of cleanliness is to be determined by sampling. The Occupational Safety and Health Administration's (OSHA) Technical Mamual, 5th Edition, provides guidance on the methods and techniques needed to collect wipe samples (Appendix B).

(I) Wine samples must be collected and analyzed prior to and after cleaning.

- (2) Post-cleaning surface wipe sample results must be less than 200 micrograms per square foot (ug/h²) (40 micrograms in the case of child exposure). The sampling strategy, which is the amount and location of wipe samples to be collected, is provided in Appendix C.
- c. Equipment/Items previously stored in the range must be decontaminated and cleaned to acceptable levels as determined by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSTIA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.
- (1) Samples must be collected from equipment/items stored in the range. Sample selection is critical, because the number of items stored, length of storage, and level of contamination differs from range to range. The amount and location of the samples should be representative of the areas where lead dust is most likely to accumulate. The more samples collected, the better the statistical comparison of the results.
- (2) Samples must be collected from the smooth surfaces of the equipment/items, as much as possible Results of samples collected from a rough surface will be inaccurate due to the minimal surface centact of the media. Further, the likelihood of tearing the media filter is greater on rough surfaces.
- (3) Samples should also be collected on items stored the longest period of time, and which have not been disturbed. Items stored closest to the bullet trap and firing line are likely to have higher concentrations of lead dust.

1.5. Goal

To ensure that every IFR is free of lead dust which means to test less than 200 micrograms and to reduce the number of unsafe National Guard IFRs.

1-6, Deviation

Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, Office of the Joint Surgeon, ATTN NGB-SG-TH, 1411 Jefferson Davis Highway, Arlungton, VA 22202-3231.

Chapter 2

Mealth and Medical Aspects.

2-1. Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible, and common in the environment. Lead can enter the body by inhalstion (breathing) or

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ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)

a. Per 29 CFR 1910.1025 (j)(i-ii), Medical Surveillance - General, "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."

b. The DOD 6055 5-M, Occupational Medical Surveillance Manual - Table 2-1 lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

2-3. Air Monfioring

Worker breathing zone air samples must be collected to ensure that personnel are not overexposed to airborne lead during the cleanup phase. Daily air samples will be collected from all personnel involved in the cleanup operation. These exposure levels will be used to evaluate work practices and medical surveillance requirements.

2-4. Wipe Sampling Protocol and Media

A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, should be used to accurately measure and mark the area before collecting wipe samples. Samples should be staggeted to different areas of the range. A grid system should be utilized. Samples should not be collected all on one section of a wall, or end of the building. OSHA Technical Manual provides the necessary guidance on the technique needed to collect wipe samples (Appendix B). Only distilled or detended water will be used to saturate dry sample media. At least one field blank must be submitted with every 10 samples. The field blank must be from the same lot, and labeled as a blank.

2-5. Personal Protective Equipment

29 CFR 1910.1025 (f) (2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, filme, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f). As a minimum, personnel conducting the decontamination of the range will be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work.

clothing and equipment such as, but not limited to:

(1) Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit.

(2) Disposable rubber gloves, and disposable shoe coverlets (If necessary).

(2) Disposable rubber groves, and disposable state coveries (if necessar)

(3) Full-face air purifying respirator with P-100 cartridges.

- b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
- c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
- d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
- e. The employer will ensure that containinated protective clothing that is to be cleared, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.

f. The employer will further inform in writing any person who cleans or launders protective clothing or

equipment of the potentially harmful effects of exposure to lead

g. The employer will ensure that the containers of contaminated protective clothing and equipment are labeled as follows: CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

Chapter 3

Education, Maintenance, Cleaning and Conversion

3-1. Worker Education

a. 29 CFR 1910.1025, Appendix B, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program will be repeated annually for personnel in range cleanup operations.

b. The commander/supervisor will ensure that each soldier or Army National Guard (ARNG) employee is informed of the following:

(1) The content of the standard and its appendices.

(2) The specific nature of operations that could result in exposure to lead above the action level.

(3) The purpose, proper selection, fitting, use and limitations of respirators.

(4) The purpose and a description of medical surveillance program.

(5) Eating and drinking are prohibited in lead contaminated areas.

(6) Smoking and smoking materials will not be permitted in contaminated areas.

- (7) Soldiers and ARNG employees must wash their hands and other exposed skin whenever they leave the work area.
 - (8) The engineering controls and work practices associated with the individual's job assignment.

(9) The contents of any compliance plan in effect.

(10) Instructions to soldiers and ARNG employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

3-2. Range Cleaning Instructions

a. Written procedures, such as a scape of work, or standing operating procedure that complies with all Vederal.
 State and local regulations must be established prior to decontamination operations.

b. The range ventilation system will be in operation during range cleaning to ensure that a negative pressure environment is maintained. In the absence of mechanical ventilation system, all doors and windows will be sealed to eliminate fugitive emissions.

c. A fligh Efficiency Particulate Air (HEPA) filtered vacuum system, which is designed to collect loose surface lead dust particles, is the preferred method of cleanup. If a HEPA filtered vacuum is not available, the range can be cleaned using a wet method.

d. Prohibited methods include.

(1) Wet cleaning using high-pressure systems, since this method may embed the lead into the substratum and generate large quantities of hazardous waste.

(2) Dry sweeping is not permitted.

- e. All surface areas of the range must be cleaned. In addition, areas cutside of the IFR where lead can be tracked must be cleaned.
- f. The preferred progression of cleaning is from top to bettern and from behind the steel bullef trap to the firing line.
- Clean the steel bullet trap, areas in front of and behind the bullet trap, and the steel bullet trap
 plate(s), after removing the sand (if applicable).
 - (2) Clean the ceiling, floors, lights, buffles, retrieval system, heating system(s), and ventilation duct(s).

(3) Vacuum and remove acoustical material. Painting over this material is not recommended.
 (4) Clean the floor the last, sterting at the bullet trap and ending behind the firing line.

g When using a HBPA filtered vacuum, vacuum all surface areas until no dust or residue is visible

h. Any general purpose cleaning solutions can be used for the wet method. However, Spic and Span⁷⁴⁴ has been found to be an effective cleaning solution by other Army organizations. Mox new solutions of cleaning solution frequently. Wet wining will require dual containers of water, one container for wetting the applicator (mops, rags, sponge, etc.) and the other container for rinsing the applicator after the dust has been wiped from the surfaces. After wet wiping all surfaces, permit the area to dry

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 Properly dispose of all hazardous waste. Do not place lead contaminated waste into the sewer system or onto the ground.

(1) When placed in containers, wastewater should be left to evaporate

(2) Mop-heads, sponges and rags will be discarded as hazardous waste following cleanup.

j. A thorough visual inspection to detect dust should be made following cleanup and prior to collecting post surface wipe samples

 Wood floors should receive a coat of deck enamel or urethane; concrete floors should be sealed with deck enamel.

1. As a variety of conditions exist in ranges, unique situation may arise and specific written guidance from

your Regional Industrial Hygiene Office may be required.

m. Any cleaning activities must be under the supervision by a trained and competent personnel IAW with OSHA and other nationally accepted standards and the work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).

3-3. Cleaning Stored Contaminated Equipment

a. Equipment contaminated (sample result is higher than 200 ug/ R^2) with lead dust must be decontaminated before it is removed from the range.

b. Equipment located near the bullet trap and firing line should be cleaned first and then removed. The cleaning method depends on the size of the equipment and the material it is comprised of, i.e. metal, wood, concrete, porous, non-porous, smooth or rough finish etc. However, either HEPA vacuum or the wet wipe method will be used. Refer to paragraph 3-2 for additional guidance.

e. Every attempt should be made to clean and reclaim items since disposing of equipment, as hazardous waste is costly and wasteful. Only as a last resort will the item be discarded as hazardous waste. Porous items, such as office partitions and carpet that were present during firing should be considered grossly contaminated and be discarded unless analysis proves otherwise. Consult your State Environmental Office for the proper hazardous waste disposal methods

3-4. Contaminated Sand and Lead Waste

Consult your State Environmental Office for specific disposal guidance to ensure compliance with local laws and regulations.

3-5. Range Rehabilitation

This chapter applies to all IFRs that have been identified as candidates for rehabilitation. It provides further guidance for cleaning and/or sampling that might be required prior to the start of rehabilitation.

a The portion(s) of the range to under go rehabilitation must be sampled to determine the level of lead contamination. Wipe samples will be taken per the established sampling protocol. See Appendix B.

b. All personnel involved in range rehabilitation will wear a NEOSII approved respirator (P-100) and proper personal protective equipment as prescribed in paragraph 2-5 above.

 Prior to the start of rehabilitation, the environmental office must be notified to determine the disposition of any debris containing hazardous materials (lead).

d. Supervision shall be by a person who is certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted III practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer.

3-6. Conversion of Indoor Firing Ranges

Prior to the start of decontamination, employers must ensure that all procedures to be used comply with Federal. State, and local regulations. To ensure that all lead contamination is eradicated, the following procedure is established.

a The State shall follow the project approval process as definested in NGR 420-10 (or NGR 415-5 if the use of the military construction appropriation is required).

b. All ranges slated for conversion will be inspected and evaluated by the NOB Regional Industrial Hygiene
 Office

4

3 November 2006 NGP 420-15

c. All equipment stored in the range, if applicable, prior to the start of decontamination must be sampled, decontaminated, re-sampled and removed or turned in as lead contaminated material.

d. All acoustical tiles and/or sound proofing material (if applicable) must be removed and turned in as lead contaminated material through the environmental office.

e. The bullet trap, target retrieval system and firing line stations must be removed and turned in as lead containing material through the environmental office.

f. Light fixtures and ventilation system grills must be removed and decontaminated.

- g. Ventilation system ducts need to be decontaminated or removed and replaced.
- h. The exhaust fans and/or the complete ventilation air-handling unit (if applicable) must be decontaminated or removed to include roof fans.
- Cover all openings of any component previously decontaminated prior to start of interior decontamination of the firing range.
- j. Prior to start of washing, the interior of the range should be vacuumed with a HEPA filtered vacuum. The range should be washed using a cleaning solution of hot water and Spic and Span in five gallons of hot water. A progression of cleaning from top to bottom, and from back to front should be used. All surface areas of the range must be cleaned. Mix new solutions of water frequently. Washing will require dual containers of water, one container for wetting the applicators (mops, rags, sponges, etc.), and the other container for ringing the applicators. Waste water placed into containers can be left to evaporate. Properly dispose of all hazardous waste and do not place any lead contaminated waste into the sever system or onto the ground. Mop heads, sponges and rags will be discarded as hazardous waste following decontamination of the range. After completion of decontamination, and prior to taking clearance samples, the ventilation system must be run for a period of 36 hours. Wipe clearance sample is samples will be taken from colling, walls and floors. The range will be considered clean if no clearance sample is greater than 200 ug/ft², if any sample is above 200 ug/ft², the range is not considered clean, the range will need to be re-washed until clearance samples are below 200 ug/ft², the range is not considered clean.

k. The regional industrial hygienist will do quality assurance sampling as needed

I After obtaining clearance, the walls of the range will be coated with a scalant (Not Paint), which is smooth, wood floors will receive a coat of deck enamel or unethane, concrete floors will be scaled with deck enamel. After scaling, floors will be tiled or covered with lineleum.

m. As a variety of conditions exist in ranges, unique situations may arise and specific written guidance from the Regional Industrial Hygiene Office may be required.

n. All personnel involved in the decontamination/conversion of IFRs as a minimum will be provided with the following personal protective equipment

 Full Face air purifying respirator with HEPA cartridges. The requirements outline in 29 CFR 1910.134, must be met prior to placing workers in respiratory protection.

(2). Individuals will be provided personal protective equipment as required per paragraph 2-5, this pamphlet.

o. Any conversion must be supervised by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSFA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).

p. After conversion, lead testing shall continue on an annual basis to verify that no lead migration from the substrate is decurring. Appendix A References

Section I

Required Publications

There are no entries in this section

Section II

Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11.34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DODI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard Indoor Firing Ranges (IPRs)

NGR 415-5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor

Section III

Prescribed Forms

There are no entries in this section

Section IV Referenced Forms

There are no entries in this section

Appendix B

Protocol for Collecting Wipe Samples

- B-1. If multiple samples are to be collected at the work site, prepare a rough sketch of the area(s) or room(s), which are to be wipe sampled.
- B-2. A new set of clean, impervious gloves should be used for each sample to avoid contamination of the media by previous samples and to prevent contact with the substance.
- B-3. Wipe Samples
- a. If using Ghost WipesTM, tear open the individually sealed package. Remove the moistened wipe. Unfold the wipe
- b. If using a dry media such as MCE or WhatmanTM filter, moisten the filter with distilled or deionized water prior to sampling.
- B-4. Place a 10 centimeter by 10 centimeter template on the area to be wined.
- B-5. Apply uniform firm pressure while wiping the area inside the template.
- B-6. To ensure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentre squares decreasing in size.
- B-7. After collecting a sample, fold the filter or wipe inward and place into a container and monther it. Note the number at the sample location on the sketch.
- B-8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory.

Appendix C

Sampling Strategy for Collection of Wipe Samples

- C-1. Prior to cleaning the ranges, three samples must be collected and analyzed for total lead dust on each surface, i.e., floor, ceiling, bullet trap, and wall to include the plenum wall, if applicable. In addition, a total of three samples should be collected from areas which have been least disturbed by airflow. Established walkways should be avoided.
- C-2 Samples should be collected from different areas of the range. A grid system should be utilized. Each range surface areas should be divided evenly into 3 by 3 sections. Samples should not be collected from only one section of a wall or end of the building.

Glossary

Section I Abbreviations

ARNG

Army National Guard

CFR

Code of Federal Regulations

HEPA

High Efficiency Particulate Air

IFR

Indeor Firing Range

NIOSE

National Institute for Occupational Safety and Health

OSHA

Occupational Safety and Health Administration

ug/ft²

Micrograms per square foot

Section II

Terms

Air monitoring

The sampling for and measuring of pollutants in the atmosphere.

Breathing zone

The imaginary globe of two feet radius surrounding the head.

General area

Collection of and later analysis of airborne contaminants in a given work environment. As the sampling rump and collection media are not attached to a worker, the concentrations found represent average concentrations in that area but may not representative of the actual exposure of the worker.

TEPA

Refers to high efficiency particulate air filter systems capable of capturing up to 99.97 percent of particles 0.3 microns in size or larger.

Lead-Containinated Runge

It is assumed that all IFRs, which have been fired in, are lead-contaminated

Respirator

A device designed to provide the wearer with respiratory protection against inhalation of airborne contaminants

Wipe Sample

The terms wipe, swipe, or smear samples are used synonymously to describe the techniques utilized for assessing lead surface contamination

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Section III Special Abbreviations and Terms

This section contains no entries



State of Oklahoma Department of Central Services Construction and Properties Division

This addendum forms a part of the contract document and modifies the original specifications as noted below. Please acknowledge receipt of this addendum in the space provided on the bid form. Fallure to do so may subject bidders to disqualification.

Date of Issue: May 3, 2010

Addendum Number: 01

DCS Project Number: 10276

Project Name: Perry and Pawhuska Armories Lead Paint Abatment

TO ALL BIDDERS OF CONCERN:

Item #1: Attached (3) Three (8 % x 11) page of additional instructions / clarifications issued by DEQ to be added to the original contract bid documents.

ALL OTHER DOCUMENTS, SPECIFICATIONS AND DRAWINGS ARE TO REMAIN THE SAME AND INTACT.

Rebekah Richardson Contract Manager

Department of Central Services - CAP

Perry & Pawhuska Armories Lead Paint Abatement Addenda #1 – Summary of Changes

Perry Armory -

- All interior and exterior window sills shall be cleaned. Once window sills are cleaned, interior and exterior window sills shall be painted with a primer and then encapsulated with a lead-based paint encapsulant. All loose and peeling paint shall be removed prior to priming and encapsulating.
- 2. Exterior window bars located on two windows shall be removed and properly disposed.
- 3. Exterior bars and exterior wood located on vent fan shall be removed and properly disposed. Wood around vent fan shall be wet scraped to remove loose and peeling paint, primed, and sealed with lead-based paint encapsulant. Metal lintel above vent fan and concrete sill below vent fan shall be wet scraped to remove loose and peeling paint, cleaned, primed, and then sealed with lead-based paint encapsulant.
- 4. The vault rooms (Room #5 and #14) shall have all walls and ceiling wet scraped, primed, and sealed with lead-based paint encapsulant.
- 5. The lead-based paint abatement of Room #13, Room #30, Room #31, Room #12, and Room #15 walls shall extend above drop ceiling to original ceiling. Drop ceiling and insulation may be moved to allow access to the walls in these areas.
- 6. All wainscoting on walls in Room #12 and Room #15 shall be removed prior to lead-based paint abatement.
- 7. All wallpaper in Room #30 and Room #31 shall be completely removed prior to lead-based paint abatement.

- 8. The paint on the floor of Room #4 and Room #5 shall be visibly removed. Once paint is visibly removed, floors shall be HEPA vacuumed, wet washed, and sealed with KM-669 Acrylic Sealer or equivalent.
- 9. The lead-based paint abatement of Room #27 (Drill Floor) walls shall not extend above drop ceiling.

Pawhuska Armory -

- All interior and exterior window sills shall be cleaned. Once window sills are cleaned, interior and exterior window sills shall be painted with a primer and then encapsulated with a lead-based paint encapsulant. All loose and peeling paint shall be removed prior to priming and encapsulating.
- 2. The Pawhuska armory <u>does not</u> have available electricity. Corrected page attached.

STATEMENT OF WORK

For

Remediation of Lead-Based Paint Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead-based paint located on surfaces throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Perry and Pawhuska Armories is attached for review (Attachment 1).

The Perry Armory is located at 309 North 14th Street, Perry, Oklahoma 73077. The building does have available electricity and does not have available water to use during remediation.

The Pawhuska Armory is located at 823 East 8th Street, Pawhuska, Oklahoma 74056. The building does not have available electricity and does not have available water to use during remediation.

SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within ninety (90) calendar days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer and questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;



DCS Construction & Properties

DATE: 12/27/2010

TRANSMITTAL

No. CO#1

10276 PROJECT:

DEQ/Lead Remediation/Perry/Pawhuska

Change Order #1 DCS #10276

TO:

Department of Environmental Quality

Crystal Creek Environmental

FAX:

REF:

ATTN:

Wendy Caperton

PHONE:

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
Shop Drawings	☐ Approval	☑ Approved as Submitted
Letter	✓ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	Returned After Loan
Change Order	Review and Comment	Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☑ Attached	Returned for Corrections
Other: Change Order	Separate Cover Via: Maif	Due Date:

ITEM NO. COPIES DATE

ITEM NUMBER

REV. NO. DESCRIPTION

STATUS

12/27/2010 CO

CO#1

Crystal Creek Environmental Solutio

APP

Remarks: DCS/CAP has approved Change Order #1 for DCS #10276 and is forwarding for your use.

DCS #10276 PO #2929012965

Net Increase: +\$1,280.91

BY

CC: DCS/CAP, UA. Vendor

Expedition Femal for \$1 declars



707 N ROBINSON

Purchase Order

CHANGE ORDER Dispatch via Print Purchase Order Date Revision Page 06/11/2010 1 - 12/20 **Payment Terms** Freight Terms Ship Via 0 Days Free on board at Festination Common Buyer Phone Currency TIFFARY MOBUSHET 15861 165/522-3047
Ship To: OK DEPT OF ENVIRONMENTAL QUALITY ពន្ធប

Dept of Environmental Quality OK DEPT OF ENVIRONMENTAL QUALITY SHIPPING & RECEIVING OKLAHOMA CITY OK 73102

SHIPPING & RECEIVING 707 N ROBINSON OKLAHOMA CITY OK 73102

Vendor: 0000237377 CRYSTAL CREEK ENVIRONMENTAL SOLUTIONS 1401 CORNELL PARKWAY Bill To:

OKLAHOMA CITY OK 73108-1811

OK DEPT OF ENVIRONMENTAL QUALITY

ADMINISTRATIVE SERVICES

PO BOX 1677

OKLAHOMA CITY OK 73101-1677

Tax Exempt? N	Tax Exempt ID:						
Line-Sch Item Id	Description	Market and the American State of the Control of the	Quantity	UOM	PO Price	Extended Amt	Due Date
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1- 1 096131

Environmental Remediation Services. Furnish All Labor, Materials & Equipment Necessary.

1.0000 BDN

107,735.9100 107,735.91 06/11/2010

BIDDING FOR LEAD REMEDIATION SERVICES FOR PERRY AND PAWHUSKA ARMORIES THROUGH THE DEPARTMENT OF CENTRAL SERVICES

VENDOR AND PRICE TO BE DETERMINED BY DCS

Total PO Amount

107,733.91

COMMENTS: DCS #10276 Rebekah Richardson-Project Manager 405-522-0050

FY 2010

PROJECT: SITE CLEANUP ASSISTANCE PROGRAM

PERRY AND PAWHUSKA ARMORIES LEAD-BASED PAINT REMEDIATION BIDDING

JUSTIFICATION: UNDER THE SITE CLEANUP ASSISTANCE PROGRAM THE DEQ WILL HIRE A LICENSED PROFESSIONAL TO ABATE LEAD-BASED PAINT AND REPLACE DOORS CONTAINING LEAD-BASED PAINT IN PERRY AND PAWHUSKA ARMORIES.

(FOR AGENCY USE ONLY)

CONTACT: KAREN RUMSEY/ASD/(405)702-1168

MARY JOHNSON/LPD/(405)702-5100

DEQ IS AN EQUAL OPPORTUNITY EMPLOYER.

FUNDING: 493

REQUISITION #2920002978 - PLEASE RETURN PO TO MARY JOHNSON

3/17/10

CO#01 distants were interest for replacement for LBP abatement and replacement in TOOM 16 of the People way Too is an earlier diseast CONTRACT SUM INCREASED ST 280 91, CONTRACT TIME REMARKS UNCHANGED. THE

Authorized Signature



State of Oklahoma Department of Central Services Construction and Properties

WW 1 2010



Change Orderland of Califal Services Construction & Properties

IMPORTANT NOTE: THE WORK DESCRIBED HEREIN IS NOT AUTHORIZED UNTIL THIS CHANGE ORDER IS COMPLETED AND SIGNED BY ALL ENTITIES LISTED BELOW. DO NOT PROCEED WITH WORK UNTIL THE CHANGE ORDER IS COMPLETED AND SIGNED BY EACH PARTY. This form is required and shall be prepared by the Contractor, All costs must be broken down. DATE: 11/14/10 P. O. NUMBER: 2929013570 DCS/CAP PROJECT NUMBER: FROM PROPOSAL REQUEST NUMBER(S): 11042 CONTRACT NUMBER: PROJECT NAME: Perry and Pawhuska Lead Paint Remediatio DCS/CAP PROJ. MANAGER: RR CONTRACTOR: Crystal Creek Environmental Solutions Inc. CHANGE ORDER NUMBER: 001 **BRIEF DESCRIPTION OF CHANGE:** A Door and frame were missed for replacement for LBP abatement and replacement in room 18 of the Perry Armory. This is a heater closet. BRIEF DESCRIPTION OF TIME DELAY: No time delay. Not valid until signed by the Contractor, Consultant, Using Agency and Authorized CAP Representative. The original Scontract Sum Guaranteed Maximum Price was 106,455.00 0.00 The Stronger Contract Sum Guaranteed Maximum Price prior to this Change Order was . 106,455.00 The ☐ Contract Sum ☐ Guaranteed Maximum Price will be ☒ increased ☐ decreased ☐ unchanged by this Change Order in the amount of 1,280.9% ☐ Guaranteed Maximum Price including this Change Order will be 107,735,91 The Contract Time will be ⊠ increased □ decreased ☒ unchanged by . . . 0 Calendar Days The date of Substantial Completion as of the date of this Change Order therefore is 11/14/10 APPROVALS: Mike Jenkinson, President, Crystal Greck Contractor Name Signature Dr.i. Consultant Name Signature Signature GL Unit Class Fund: Fall ives.

Cost Breakdown For Change Order (Not Required If Change Is Less Than \$10,000)

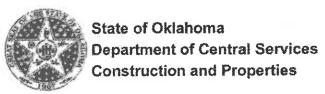
(1) Materials	Unit	Unit Cost	Total
Door and Frame	1	691.42	691.42
Hardware	1	93.33	93.33
	A CONTRACTOR OF THE PROPERTY O		0.00
			0.00
			0.00
gang pangangan dan dan dan dan dan dan dan dan dan d			0.00
		Subtotal (1)	784.75

(2) Labor	No. Of Hours	Hourly Cost	Total
Labor to strip LBP from old door frame	1	136.00	136.00
Labor to install door and frame	1	302.25	302.25
			0.00
			0.00
			0.00
		*	0.00
		Subtotal (2)	438.25

(3) Equipment	No. Of Hours	Hourly Cost	Total
			0.00
рация — при при при при при при при при при при			0.00
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- will continue the contraction of the contraction			0.00
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		Subtotal (3)	0.00

(4) Sub Contractors (List each Sub Contractor)	Totai
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Subtotal (4)	0.00

Column 1		Column 2		
Insurance Cost	green in Carlotte, and designed to the designed and the contract of the contra	Overhead Custs (15% Maximum of 1,2 & 3)		
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Social Security Taxes (FICA)		Overnead Cosse & Profit (Total limited to 15% of 4)		
Other Taxes	57.91	Total of Column 2		
Worker's Compensation	The second secon	Total of Column 1 5		
Employee Fringe Remefits	The second secon	and controlling the supplication of the control and the contro	and a second control of the control	
Total of Column 1	57.91	Total for this Fage (3-btetals 1 - 4, and Col. 1 & 2 Totals)	\$1,280.91	



Explanation For Change Order

E	ESTED BY: Contractor ⊠ Consultant ☐ Using Agency ☐ Owner (DCS/CAP)
E	ON FOR CHANGE: (check box) Detailed explanation required below.
	inforeseen site condition. Work not specified in Contract Documents, but essential to completion of the completion of the completion of the condition.
]	cope change: Using Agency request. project.
]	cope change: DCS/CAP request.
	Provide a detailed description of the proposed change in the Work and provide detailed reasons why this change is necessary.
L	ILLED REASON FOR CHANGE IN THE WORK: or and frame were missed for replacement for LBP abatement and replacement in room 18 of the Perry Armory. This r closet. Picture Attached.
e	FRACT TIME REQUEST EXPLANATION: The how the time requested will extend the "critical path" of the project schedule and will not be concurrent with other work. The delay.

STATEMENT OF WORK

For

Remediation of Lead-Based Paint Contamination at Perry and Pawhuska Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at former National Guard armories located in Perry and Pawhuska, Oklahoma. This statement of work (SOW) describes the cleanup of lead-based paint located on surfaces throughout the building. This work must be performed to provide for safe reuse of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Perry and Pawhuska Armories is attached for review (Attachment 1).

The Perry Armory is located at 309 North 14th Street, Perry, Oklahoma 73077. The building does have available electricity and does not have available water to use during remediation.

The Pawhuska Armory is located at <u>823 East 8th Street</u>, Pawhuska, Oklahoma 74056. The building <u>does</u> have available electricity and <u>does not</u> have available water to use during remediation.

SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within ninety (90) calendar days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer and questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;

Submit With Bid:

- · Copy of lead-based paint license;
- Three references with name, type of project, phone number, and location of similar work in the last three years;

Submit After Contract Award:

A Work Plan with planned activities and schedule to DEQ for approval;

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

1. LEAD-BASED PAINT ABATEMENT

A. Non-Friction and Non-Impact Surfaces

Perry Amory

- O All down spouts, all window lintels, all wood overhead doors, the walls of room numbers 4, 12, 13, 15, 27, 30, 31, 33, and 34, the concrete doorway overhang above both exterior side doors, the white concrete ledge below mural in drill floor, and all overhead door frames and guards shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 3). Encapsulant shall be a minimum of 20 mils thick. Floor plan map is attached (Attachment 1). For a detailed list of lead-based paint locations see the Perry Armory Lead-Based Paint and Settled Dust Sampling Report (Attachment 5);
- o The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- O Deteriorated paint removed from building surface shall be properly disposed.

Pawhuska Armory

- O All down spouts, all window lintels, all wood overhead doors, the walls of room number 17, and all overhead door frames and guards shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 3). Encapsulant shall be a minimum of 20 mils thick. Floor plan map is attached (Attachment 1). For a detailed list of lead-based paint locations see the Pawhuska Armory Lead-Based Paint and Settled Dust Sampling Report (Attachment 5);
- O The yellow paint on the floor of room 10 and the grey paint on the floor of room 15 shall be visibly removed. Once paint is visibly removed, floors shall be HEPA vacuumed, wet washed, and sealed with KM-669 Acrylic Sealer or equivalent;
- O The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- O Deteriorated paint removed from building surface shall be properly disposed.

B. Friction and Impact Surfaces

Doors and Frames

- O Pawhuska Armory and Perry Armory Door-Scope of Works with maps, door measurements, and specific details on abatement requirements for each door are attached (Attachment 4);
- o All removed doors shall be wrapped in 6 mil poly sheeting and properly disposed;
- O All door frames shall have all paint removed and frame shall be painted with neutral colored primer;
- o Doors shall be replaced with pre-hung Steelcraft Commercial Replacement Door Units (Specifications Attached) or equivalent;
- O Doors shall be replaced with UL listed 90 minute standard metal doors;
- O Doors shall be replaced with Steelcraft L18 and L16 Series Honeycomb Doors (Specifications Attached) or equivalent;
- O Contractor must submit product data for approval if different from doors or door frames in bid package;
- O Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;

Exterior Doors

- Exterior doors shall be replaced with galvannealed, 16 gage, honeycomb core insulated doors;
- Hinges: As manufactured by Hagar or approved equal Plain Bearing –
 Standard Weight 1279 NRP, 4 ½ X 4 ½ (Specifications Attached);
- Threshold: As manufactured by National Guard Products or approved equal 426E (Specifications Attached);
- Weather Strip: As manufactured by National Guard Products or approved equal – 160VA (Specifications Attached);
- Lever: As manufactured by Schlage or approved equal D Series "Rhodes", 626 finish, function ND60PD (Specification Attached);
- Keying: All doors to be keyed alike;
- Provide sealant per 07920 specification attached.

Interior Doors

- Interior doors shall be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
- Hinges: As manufactured by Hagar or approved equal Plain Bearing Standard Weight 1279, 4 ½ X 4 ½ (Specification Attached);
- Knob: As manufactured by Schlage or approved equal A Series "Orbit",
 626 finish, function A10S (Specification Attached);
- Provide sealant (caulking) per 07920 specification attached.

C. Clearance Inspection

- Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
- Once lead-based paint abatement is complete, contractor shall HEPA vacuum and wet wash surrounding areas where abatement has been performed. DEQ will perform a visual inspection to make sure abatement area has been cleaned appropriately.

D. Sampling and Disposal

- O DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
 - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor's responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
 - A completed and signed waste manifest and a Land Disposal Notification Form, and a Certificate of Disposal to demonstrate that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

2. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
 - o A detailed summary of work including any warranties and data;
 - o sample results;
 - o waste manifests; and
 - o photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
 - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

OWNER REPRESTATIVE

Owner's Representative:

Dustin Davidson

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102 (405) 702-5115 (Office) (405) 702-5101 (Fax)

E-Mail: <u>Dustin.Davidson@deq.ok.gov</u>

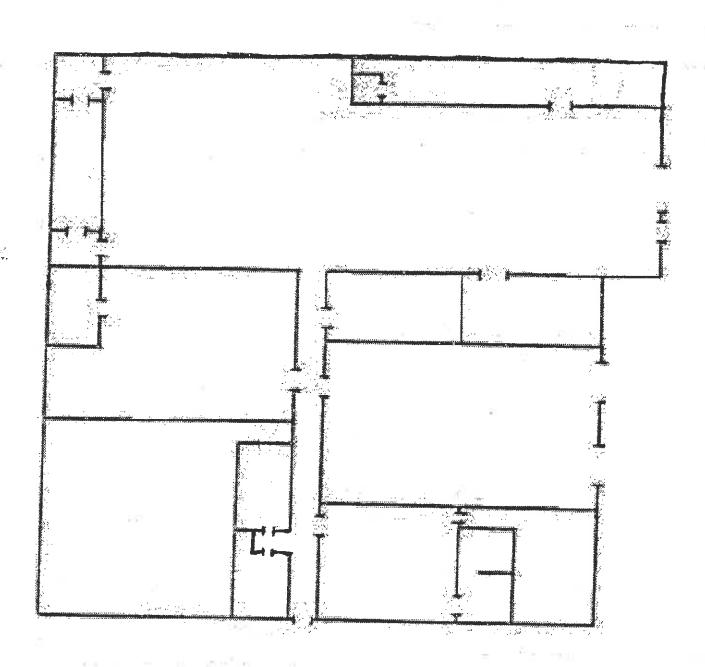
ATTACHMENT 1

Pawhuska Floor Plan Map

Perry Floor Plan Map

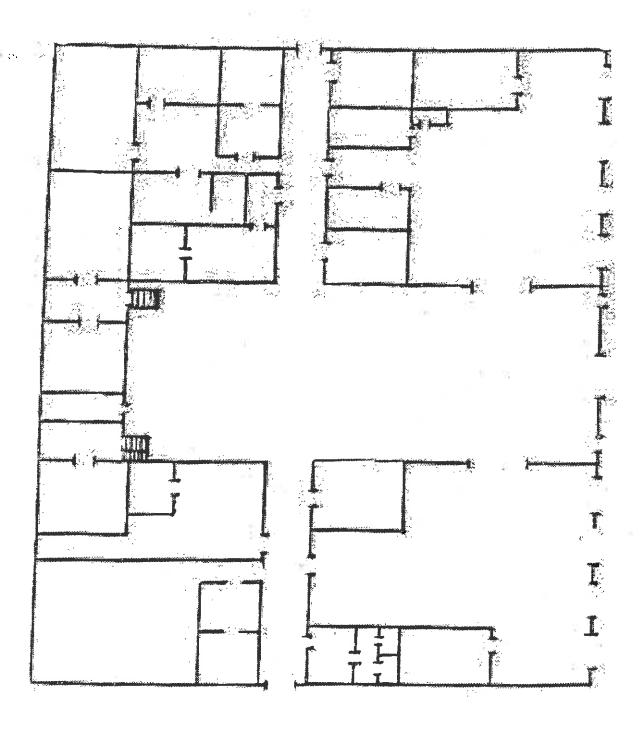
PAWHUSKA ARMORY





PERRY ARMORY





1	Indoor Firing Range	2
, agin		
		0

ATTACHMENT 2

Health & Safety Aspects to Consider

Health & Safety Aspects to Consider

Project Goal: To ensure that former National Guard Armories are free of lead dust. Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 4).

Health and Medical Aspects

Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

Medical Surveillance for occupational Exposure to Lead

- a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."
- b. The DOD 6055.5-M, Occupational Medical Surveillance Manual Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

Personal Protective Equipment

29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.

- a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:
 - (1) Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit.
 - (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
 - (3) Full-face air purifying respirator with P-100 cartridges.
 - b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
 - c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
 - d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
 - e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
 - f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
 - g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: <u>CAUTION</u>: <u>CLOTHING</u>

 CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

Education, Maintenance, Cleaning and Conversion

Worker Education

- a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.
- b. The supervisor shall ensure that each individual employee is informed of the following:
 - (1) The content of the standard and its appendices.
 - (2) The specific nature of operations that could result in exposure to lead above the action level.
 - (3) The purpose, proper selection, fitting, use, and limitations of respirators.
 - (4) The purpose and a description of medical surveillance program.
 - (5) Eating and drinking are prohibited in lead contaminated areas.
 - (6) Smoking and smoking materials shall not be permitted in contaminated areas.
 - (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
 - (8) The engineering controls and work practices associated with the individual's job assignment.
 - (9) The contents of any compliance plan in effect.
 - (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

REFERENCES

Section 1 Required Publications

There are no entries in this section

Section II Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DODI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor Section III

ATTACHMENT 3

DEQ Approved Lead-Based Paint Encapsulants List

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK TM
Dumond Chemicals	LEAD STOP TM
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal [™] I
Encap Systems Corporation	EncapSeal [™] II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock TM
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP TM
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

ATTACHMENT 4

Pawhuska Door Scope of Work Including Measurements and Specifications

Perry Door Scope of Work Including Measurements and Specifications

Pawhuska Armory Door Measurements And Scope of Work

- Door measurements are listed as approximate Width X Height; Contractor to field verify.
- All removed doors will be properly disposed.
- All removed lead-based paint will be properly disposed.
- Attached is a Pawhuska Armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.
- · Specifications for replacement doors are attached.
 - 1. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
 - 2. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
 - 3. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
 - 4. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 5. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 6. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 7. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 8. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.

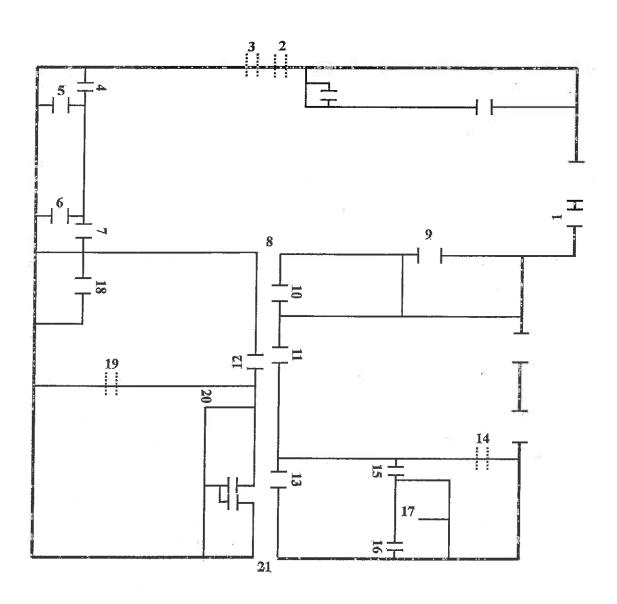
Double Door Measurements – 6' X 7'

- 9. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 10. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 11. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 12. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 13. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 14. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 15. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 16. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 17. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 18. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
- 19. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'8" X 7'
- 20. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'

21. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.

Pawhuska Armory





Perry Armory Door Measurements And Scope of Work

- Door measurements are listed as approximate Width X Height; Contractor to field verify.
- All removed doors will be properly disposed.
- All removed lead-based paint will be properly disposed.
- Attached is a Perry Armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.
- Specifications for replacement doors are attached.
 - 1. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 2. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 3. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 4. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
 - 5. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

 Door Measurements 3' X 7'
 - 6. Remove door and frame. Do not replace.
 - 7. Remove door. Remove all paint from door frame. Frame will be painted with a neutral colored primer. Do not replace door.
 - 8. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
 - 9. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.

- 10. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 11. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 12. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 13. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 14. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 15. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 16. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 17. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.
 Double Door Measurements 5' X 7'
- 18. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

 Door Measurements 2'6" X 6'8"
- 19. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 20. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 6'11"
- 21. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 22. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.

- 23. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements -3' X 7'
- 24. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 25. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 4' X 7'
- 26. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 27. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

 Door Measurements 4' X 7'
- 28. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 29. Remove door frame. Do not replace.
- 30. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer.

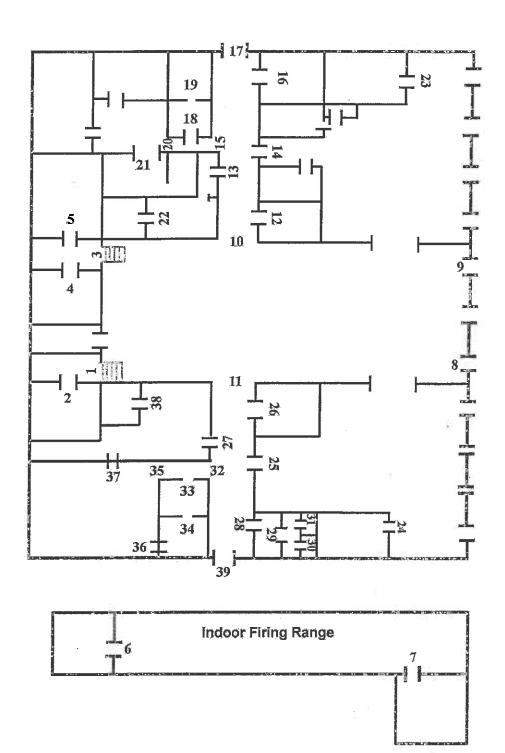
 Door Measurements 2'4" X 7'
- 31. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'4" X 7'
- 32. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.
- 33. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements -2° X 6° 8"
- 34. Remove all paint from frame. Once paint is removed, paint frame with neutral colored primer.

- 35. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 36. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 3' X 7'
- 37. Remove door. Remove all paint from door frame. Replace door with pre-hung door unit. Original frame will be painted with a neutral colored primer. Door Measurements 2'8" X 7'
- 38. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
- 39. Remove double doors. Remove all paint from door frame. Replace double doors with pre-hung door unit. Original frame will be painted with a neutral colored primer.

Double Door Measurements - 5' X 7'

Perry Armory





1.60

Install a pre-hung

■ Steelcraft'

COMMERCIAL

1½ HR (B) LABEL steel frame.

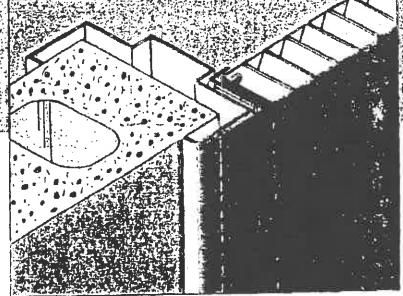
BEPLAGEMENT

DOOR UNIT

New beauty and security for worn out doors.

The Steelcraft Commercial Replacement Unit is the only product of its kind specifically designed for the rehab market. Fits these nominal sizes: 2868, 3668, 3668, 3868, 4068, 2870, 3070, 3670, 3870, 4070 single, and 5468, 5068, 5470 and 6070 double doors.

- Does not require removal of existing frame.
- · Fits an "out-of-square" opening.
- Works with grouted or-nongrouted frames.
- · installs quickly and easily.
- Includes rugged steel adapter
- Permits door swing to be changed without major rework.
- Fills opening without re-mortising and filling hardware cutouts.
- Can be installed in existing steel or wood frame.
- · Provides additional security.





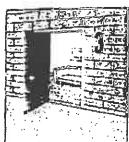
QUICK

1. Remove old door, hardware, sill and any other item(s) projecting into opening.



'N EASY

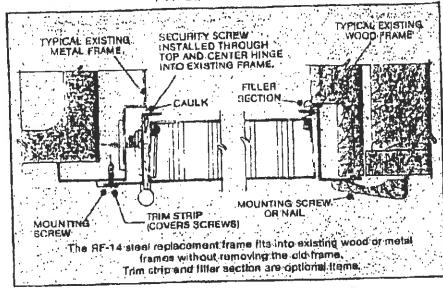
2. Set pre-hung unit into frame opening. Install mounting screws frough face, cut bending and install accurity screws.



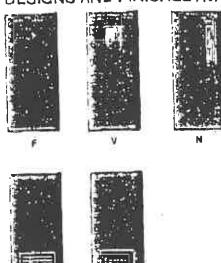
INSTALLATION

3. Mount'nerdware sa required. Paint,

TYPCIAL SECTION



DESIGNS AND FINISHES AVA



LOUVERS



KNOCKED DOWN CORNER CONSTRUCTION.
FAST AND EASY TAB AND
SLOY ASSEMBLY DESIGN INSURES
CLEAN AND NEAT JOINT.

EDGE ROLLED 14 GA GALYANIZED STEEL

MORTISE STRIKE AND

HINGE PREPARATION

ADHESIVE BACKED

RUBBEA S LENCERS

OUTSWING

INSWING SILL

SILL WHEN REQUIRED. ATTACHED WITH SHEET METAL SCREWS

> FRAME IS FURNISHED WITHOUT SILL AS STANDARD. AN OPTICINAL INSWING OR OUTSWING SILL IS AVAILABLE. WEATHERSTRIPPING ALSO IS AVAILABLE AS AN OPTION.

SPECIFICATIONS

Commercial Replacement Unit shall be supplied as a complete unit, consisting of 18 ga. door (RL-18) and 14 ga. frame (RF-14).

int-le).

Single openings shall be pre-hung, ready for quickland dasy
natalistion. Double openings shall be supplied as separate,
units (frame-and two door leaves) not pre-hung.

Doors shall conform to the following:

Doors shell be as manufactured by Sheltcraft, Cincinnell, Ohio, and designated as RL-18 (1% 18 ga. steel).

Doors shall be tabricated from cold rolled steel:

Dicors shall have 'he' bevel in 2" on hings and lock edges.
Dicors shall have ventcal mechanical interlocking seems or hings and lock edges with visible edge seam:

Occassher be provided with too and bottom inverted steel channels apotwelded within the door.

Doors shall be reinforced, stiffened and sound deadened, with impregnized traffhoneycomb core completely filling the inside of the door and laminated to the inside faces of panels.

Doors shall be mortised and adequately reinforced for all

Doors shall be phosphatized and receive one coat of baked-on name paint.

Frames shall conform to the following:

Frames shall be as manufactured by Steelcraft, Cincinnat, Ohio, and designated as RF-14 (14 gd.).

Frames shall be accurately formed from galvanized steel.

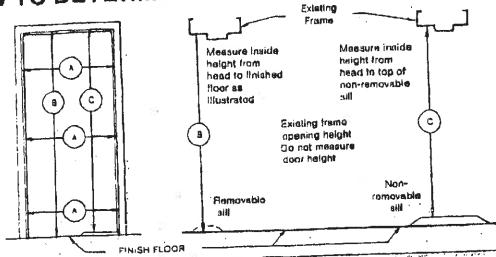
Frames shall be turnished knocked down (KD). Corners shall have tabs for secure and easy interlocking of jambs to head at each corner.

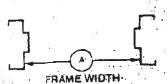
Frames shall be supplied with adhesive backed rubber sumpers; three per strike lamb, two per double door trama

Frames shall be phosphatized and receive one cost of paked-on prime paint.

*Single openings are designed to be pre-hung and installed. Units are happiled KD for pre-hanging at job site or by distributor.

HOW TO DETERMINE SIZE OF EXISTING FRAME





Messure in 3 places. Use parrowest dimension for ordering

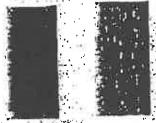
NOTE: ORDER UNITS BY NOMINAL SIZES. DO NOT ORDER BY ACTUAL DIMENSIONS.

	FITS	THEBE EXIS	TING OPENI	(G5)
SIZE	A. W	отна 📜	8 0	IEIGHTS 4
(Nominal)	MIN	MAX	MIN	MAX
2'8" x 6'8"	" 314": -	32%		80%
3'0" x 6'8"	351/2"	36%	-: 79W	80%
3'8" x,6'8"	41,16"	4236	79%	30Vi
3/8". x 6/8".	4842	44%	7.9%	80%
4'00'x 6'8"	47%	48%	7992	80%7
2:8" x.7'5"	at%"	3247.	83%	84%
3:0" x 7'0"	35%	364,	83.5	84%
316" x 7'0"	4 4138 C	42947	83%	B415*
3'8"-x'7'0"	437	44%		
40" x 710"	47.1/2"	46W"	8316	84%
5'4" x 8'8"	8355	5 84401.7°		30%
6'0" x 6'8"	7146	72%	7912	80%
5:4" x.7'0";	6395	B4.167	83%	844
6'0" x 7'0"	7.1%% · ·	7.2%	83%'s	B4 1614

MAX. OPENING HEIGHT MAY BE EXCEEDED BY BLOCKING DOWN EXISTING OPENING.

TO HAND A DOOR — FACE IT FROM THE OUTSIDE OR KEYSIDE RIGHT HAND LEFT HAND REVERSE RIGHT HAND REVERSE LEFT HAND Hinges on Right Opens Outward Hinges on Right Hinges on Left Deans Dutward Hinges on Left Opens Inwerd Opens inward RIGHT HAND LEFT HAND REVEASE RIGHT HAND REVERSE LEFT HAND -inges on Right Hingas on Right Opens Inward Hinges on Left Hinges on Lake Opens Dutwerd





FINISH PAINTED AND WOOD GRAIN FINISHES

HARDWARE

Replacement Units shall be prepared for the following hardware:

Hinges:

1-1/2 pair of 4-1/2 x 4-1/2 x .. 134 template hinges

Lock and Strike:

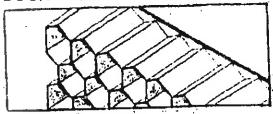
Bovernment 161 (ANSI-AT 15.2) cylindrical or Government 88 (ANSI-AT15.1) mortise look with an ANSI-ATTS or 2 strike

Consult distributor for other hardware preparations.

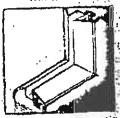
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	NOMINAL	1	e size Opening)	NET DOOR SIZ	
(SIZE	WIDTH	HEIGHT		HE!GHT
,—	2868	31"		30-13/16*	[1
}	3060	35"]	34-13/16"	
ļ	3668	41"	79%	40-13/18"	71W"
	3868	43"	1	42-13/18"	1
1 14	4058	47"	1	46-13/16"	
SINGL	2870	31"	!	30-13/16"	!
ហ	3070	35"	7	34-13/16"	
[3670	4*"	83%" ·	40-13/16"	82%"
	3870	43"	1	42-13/18"	
İ	4070	47"	1	46-13/18"	
-	5468	63"	791/4"	30-13/18" & 31-13/16"	78%
Œ	6068	71"	7974	34-13/16" & 35-13/16	
PAIR	5470	-63°	n21/ "	30-13/16" & 31-13/16"	
1	8070	/1"	83%"	34-13/16" & 35-13/16"	1
_					

FOR PAIRS OF DOORS INACTIVE LEAF IS 1"WIDER THAN ACTIVE LEAF CONSULT DISTRIBUTOR FOR OTHER SIZES.

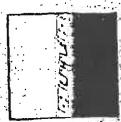
DOOR DETAILS



Full noneycomb core of phenolic realinimpregnuted kraft paper reinforces the door every-1 inch, providing superfative resistance to impact and assuring a fint surface.



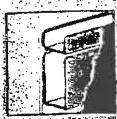
Alumiaum glase trim. (.rr)-qane)



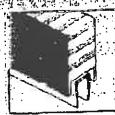
8-gage thick hingereinforcement.



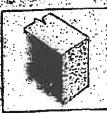
Shap-in: shall top.cupa doriexterior openings.



Stadings and buttom einforoling channels il A-Bide closon tajil-Vorcement when required



Door bottom-with. double aweep when required.



.insulated doors: une pound polystyrene; core, 11/4 pound polyurethane core when required.

PAIRS OF DOORS



Designe shown may be comomed for pairs of doors. Pairs of doors consist of two leaves and a 14 ga. steel "Z" sattagal field mounted to inactive isul of pair, inactive lest may be sucured with flush boits or auriaca polts.

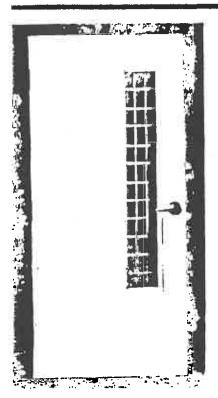
hipte: For pairs of doors, right hand will be active, unless apacifically croored.

SIEELCHAFI.

L18 AND L16-SERIES HONEYCOMB DOORS







ABOUT THE PRODUCT:

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

- Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight,
- Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
- Patented universal hinge preparations allow for easy fiel conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
- 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
- Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
- Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
- Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

- Door construction for the Steelcraft L18 and L16-Series Fu Flush Doors meet the requirements of ANSI A250.8-1998. (commonly referred to as SDI-100)
- Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing ASTM E152 and UL-10B) and positive pressure standards UBC 7-2 and UL-10C)

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications
16 gage (1,3mm)	Interior & Exterior-	Extra-heavy duty	16 & 14 gage steel frames
18 gage (1mm)	Interior & Exterior	Heavy duty	(16 gage steel frames)
Steel Type	Opening:	Building Applic	ations
Non Galvannealed ³	Mainty Interior	Typical building conditions	
Galvannealed ²	Mainly Exterior	Used in local	ations with high humidity and/or weather exposure

MATERIAL:

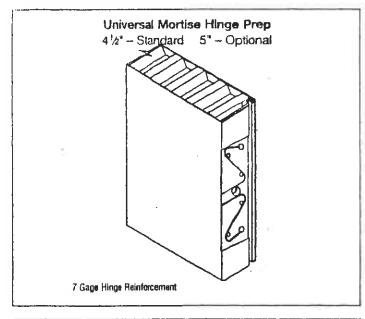
Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for field applied finish paints.

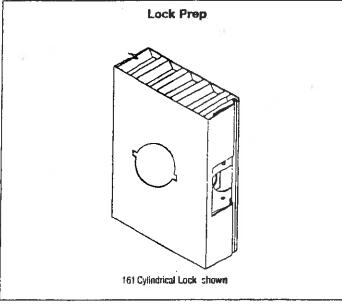
¹ Usage frequency is based on ANSI A250.8-1998

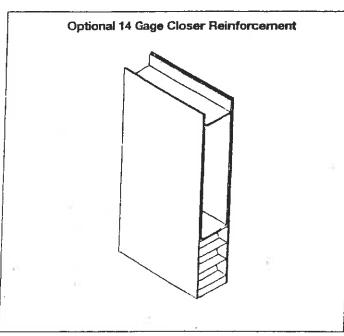
² Reinforcements for galvannealed doors are also galvannealed

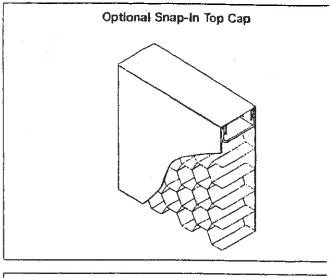
Commercial quality carbon steel

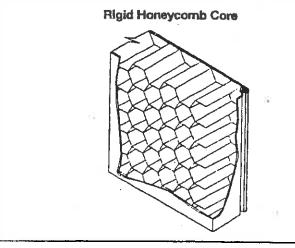






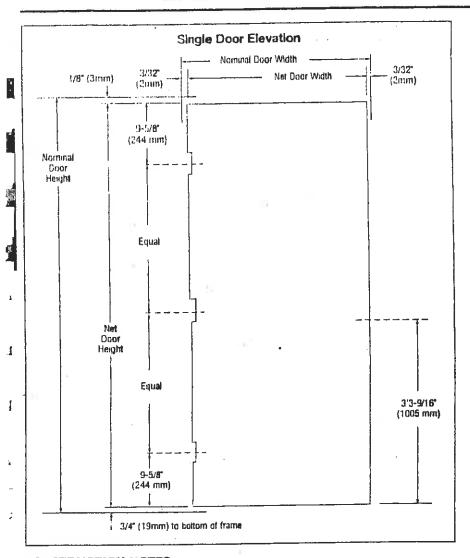






GENERAL NOTES:

- 1. Edge construction:
 - Vertical edges (both hinge and lock) are beveled with a visible searn.
 - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
- Optional edge seams available in the L-Series door construction are as follows:
 - LF The mechanical edge seam is filled and finished pn to applying the factory primer.
 - LW The mechanical edge seam is welded and finished prior to applying the factory primer.
- 3. Optional cores available in the L-Series door construction
 - Polystyrene for exterior applications in extreme weather conditions.
 - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
- 4. Standard hardware preparations: standard mortised and reinforced for:
 - Universal hinge preps 4½"(114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - Locks A multitude of standard lock preps are available. The most commonly used with a 47/4" (124mm) strike are 161, 61L and 86.

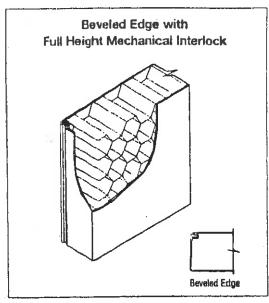


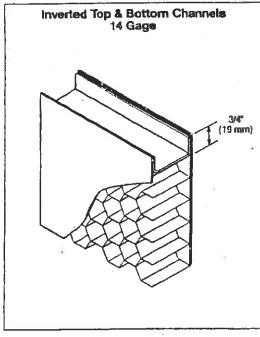
CONSTRUCTION NOTES:

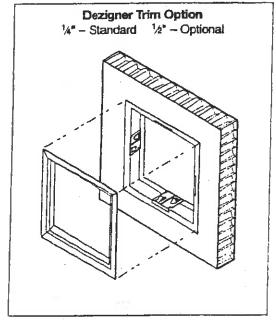
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1

- 1. Doors are 13/4" (45mm) thick.
- Door opening size maximum: Single door opening size 4'0" x 10'0" (1219mm x 3048mm) Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
- Standard operating clearances (installed in frame):
 Head = ¼" (3mm) to bottom of head or transom panel
 Hinge and lock side = ½2" (2mm) to rabbet on jamb
- 4. Standard core system:
 - 1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located 3/4" (9mm) lower.
- Glass lites with Dezigner trim and louvers: doors with glazed cutouts and doors with louvers are available (see Lites and Louvers section of Spec Manual).







Ex.

STEELCRAFT.

INSTALLATION:

- 1. Installation shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware.
- 2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application
L	Heavy & Extra-heavy duty	High traffic in all commercial applications
LF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions

CONVERSION CHART

ANSI A250.8 (SDI 100) Recommended Specification for Standard Steel Doors and Frames.

landard Steel Do	OIS AND FIAMOUR	_		Edge Construction
	Level	Model	Description	
Series	2070	4	Full Flush	Full height, visible mechanical interlocked edge
L18	2	<u> </u>	Seamless	1 -Series with epoxy filled edge seams
LF18	2		Seamless	L-Series with welded edge seams
LW18	2	1	Full Flush	Full height, visible mechanical interlocked edge
L16	3		Seamless	L-Series with epoxy filled edge seams
LF16	3	2	Seamless	L-Series with welded edge seams
LW16	3			

DOUBLE DOOR APPLICATIONS:

13

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L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

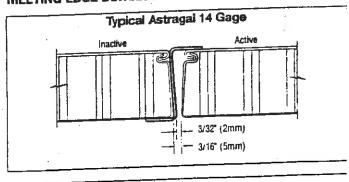
- Standard operating clearances (installed in frame):
 - Head = ¼" (3mm) to bottom of head or transom panel
 - Hinge side = ³/₂° (2mm) to rabbet on jamb
 - Meeting edges = ½2" (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf
 - Bottom = ¾" (19mm) to bottom of frame

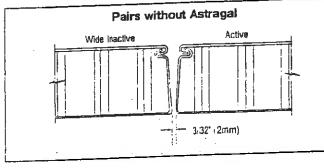
Double Door Elevation Nominal Door Width 1/6" (3mm) Active 3/32* 3/32" (2mm) (2mm) Nominal Door Height See meeting edge details 3/41 (19mm)

Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragal is not used, the width of the inactive leaf is increased 3/32" (2mm).
- · Hardware preparations: the inactive leaf can be prepared for hardware as specified.

MEETING EDGE DETAILS:





Architectural Hing



Full Moctise

Five Knuckle

Plain Bearing - Standard Weight

For use an medium weight doors or doors requiring low trequency service

1191 Brass with Stainless Steel pin - ANSI A2133

Stainless Steel with Stainless Steel pin

-- ANSI A5133

1279 Steel with Steel pin - ANSI A8133

. Non-rising removable pin with button tip and plug

. With door closer use ball bearing hinge

Hingo Size		Gauge of	Halo	Screw Size		
Inches	17107	Motal	Count	Machine 4	Wood	
2 x 2	51 x 51	0.083	4	-	3/4 x 8	
21/2 x 21/2	64 x 64	0.089	6	-	3/4 X-8	
3 x 3	76 x 76	0.097	6	-	1 x 9	
31/2 x 31/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9	
4 x 4	102 x 102	0.129	8	1/2 x 12-24	11/4 x 12	
41/2 x 4	114 x 102	0.134	8	1/2 x 12-24	11/4 x 12	
41/2 x 41/2	114 x 114	0.134	8	1/2 x 12-24	11/4 x 12	
5 x 4	127 x 102	0.145	8	1/2 x 12-24	11/4 x 12	
5 x 41/2	127 x 114	0.145	8	1/2 x 12-24	11/4 x 12	
5 x 5	127 x 127	0.145	8	1/2 x 12-24	11/4 x 12	
6 x 41/2	152 x 114	0.160	10	1/2 x 1/4-20	11/2 x 14	
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	11/2 x 14	
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	11/2 x 14	

Five Knuckle

Plain Bearing - Standard Weight - Wide Throw

For use on medium weight doors or doors requiring tow frequency service

1191 Wide Throw

Brass with Stainless Steel pin - ANSI A2133

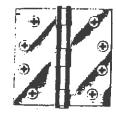
Stainless Steel with Stainless Steel pin - ANSI A5133

1279 Wide Throw

Steel with Steel pin - ANSI A8133

- · Non-rising removable pin with button tip and plug
- · With door closer use ball bearing hinge

Hingi	Sizo 😤	Gauge of	Hole	Scraw	Size
Inches	mm	Metal	Count	Machine	Wood
31/2 x 5	89 x 127	0.119	6	1/z x 10-24	1 x 9
31/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	11/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	11/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	11/4 x 12
41/2 x 5	114 x 127	0.134	- 8	1/2 x 12-24	11/4 x 12
41/2 x 6	114 x 152	0.134	8	1/2 x 12-24	11/4 x 12
41/2 x 7	114 x 178	0.134	8	1/2 x 12-24	11/4 x 12
41/2 x 8	114 x 203	0.134	8	1/2 x 12-24	11/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	11/4 x 12
5 x 7"	127 x 178	0.145	8	1/2 x 12-24	17/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	11/4 x 12



Concealed Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

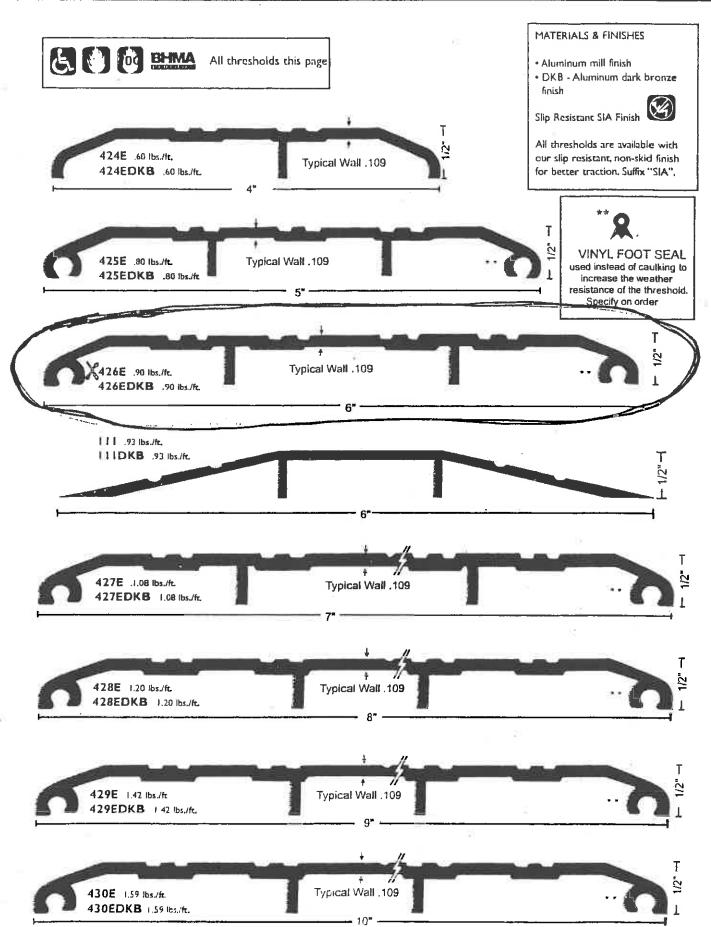
CB1191 Stainless Steel with Stainless Steel pin - ANSI A5112

- . Non-rising removable pin with button tip and plug
- . Only available with SecureCoat* Lifetime finish (US3SC)
- Specify machine screws

Hinge	a Siza	Gauge of	liole	Scret	w Size '
Inches	ning:	Metal	Count	Machine	Wood
31/2 x 31/2	89 x 89	0.119	6	-	1 x 9
4 x 4	102 x 102	0.129	8	 ,	11/4 x 12
41/2 x 4	114 x 102	0.134	8	-	11/4 x 12
41/2 x 41/2	114 x 114	0.134	8	-	11/4 x 12
5 x 4	127 x 102	0.145	8		11/4 x 12
5 x 41/2	127 x 114	0.145	8	-	11/4 x 12
5 x 5	127 x 127	0.145	8	_	11/4 x 12
6 x 41/2	152 x 114	0.160	10	-	11.'2 x 14
6 x 5	152 x 127	0.160	10	- 1	11/2 x 14
6 x 6	152 x 152	0.160	10	_	11/2 x 14



National Guard Products, Inc. The products you count on The people you trust.



Vinyl Perimeter Seals

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NATIONAL GUARD PRODUCTS, INC.

Vinyl Seals

Properties:

- · Synthetic polymer: Polyvinyl Chloride
- Economical

51

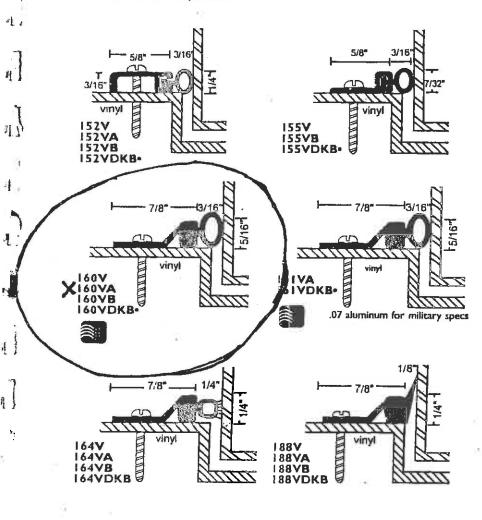
- · Flame resistant
- Moisture resistant
- Temperature range OF to 140F
- Plasticizers evaporate with age and exposure to UV, Cold, Heat causing hardening, loss of memory, loss of resilience, cracking and crazing

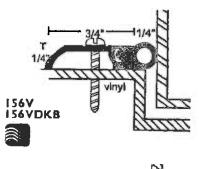
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished Screw holes slotted for adjustment

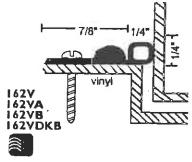


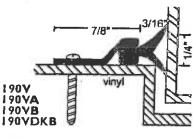
All vinyl seals this section

A - clear
B - gold
DKB - dark bronze
no suffix - mill
Vinyl is gray
(exception: •vinyl is black)



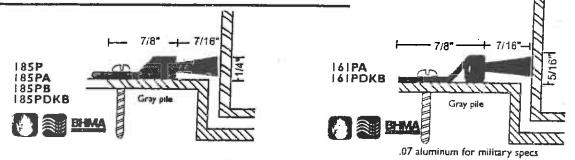








Pile Seals



Specifications

Handings

All D-Series lever locksets are non-handed.

Door Thickness:

1 %" to 2 %" (41 mm – 54 mm) standard including Vandlgard[®] functions.

See accessories (Page 12) for spacers required for 14%" doors.

Backsets

2 1/4" (70 mm) standard, 23/8", 3 1/4" and 5" (60 mm, 95 mm, 127 mm) optional.

Faceplater

4.1

Brass, bronze or stainless steel. 11/6" x 21/4" (29 mm x 57mm) square corner, beveled.

Lock Chassist

Zinc plated for corrosion resistance.

Latch Bolts

Steel, ½" (12mm) throw, deadlocking on keyed and exterior functions. ¾" (19 mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trims

Levers: Pressure cast zinc, plated to match finish symbols. Roses: Solid brass.

Striker

ANSI curved lip strike 1½" x 4½" x 1½16" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 11.

Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options:

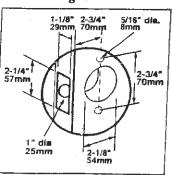
Interchangeable core and Primus^a high security cylinders. Master keying, grand master keying and construction keying.

Warranty:

Seven-year limited for all functions including Vandlgard®.

Door Preparation

Lever Designs



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal

Meets FF-H-106C Series 161.

California State Reference Code

(Formerly Tide 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

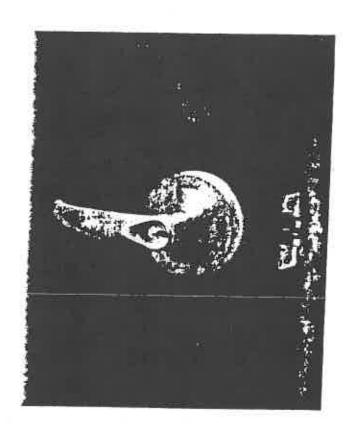
UL / cUL:

All locks listed for A label single doors, 4' x 8'.

Letter F and UL symbol on latch front indicate listing.

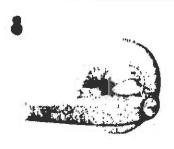
Electrified functions are UL19X Listed for single point locking applications.

UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



Lever Designs & Finishes

Lever Designs & Finishes



ATHENS

Symbol: ATH

Material: Pressure cast

zinc lever; wrought brass rose

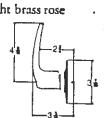
Finishes

605, 606, 612, 613, 619, 625,

626

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606



SPARTA

Symbol: SPA (17)

Material: Pressure cast

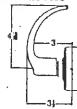
zinc lever; wrought brass rose

Finishes 605, 606, 612,

613, 619, 625,

626

1000



RHODES

Symbol: RHO (06)

Material: Pressure cast

zinc lever; wrought brass rose

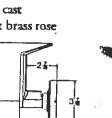
Finishes

605, 606, 612,

613, 619, 625,

626

612 🕭



OMEGA

Symbol: OME

Material: Pressure cast

zinc lever; wrought brass rose

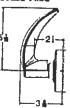
Finishes

605, 606, 612,

613, 619, 625,

626

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605 Bright Brass



606 Satin Brass



612 Satin Bronze



613 Oil Rubbed Bronze



619 Satin Nickel

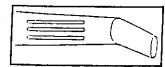


Bright Chromium Plated



626 Satin Chromium Plated

Keyed functions available with interchangeable core options. Levers are available for full size and small format interchangeable cores.



TACTILE WARNING (KNURLING)

Change symbol designation as

follows:

8AT for Athens

8RO for Rhodes

8SP for Sparta

Only outside lever is knurled unless otherwise specified.

Man mail shin mish Aman sein

Finishes

605 Bright Brass

606 Satin Brass

612 Satin Bronze

613 Oil Rubbed Bronze

619 Satin Nickel

625 Bright Chromium Plated

626 Satin Chromium Plated

Functions

Non-Keved Locks

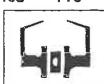
SCHLAGE -**ANSI**

ND10S

F75



Both levers always unlocked.



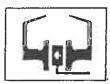
ND12D F89



Exit Lock

Outside lever always fixed. Inside lever always unlocked.

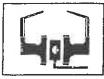
ND12DEL



Electrically Locked (Fail Safe) Outside lever continuously locked

electrically. Unlocked by switch or power failure, Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

ND12DEU



Electrically Unlocked (Fail-Secure)

Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.

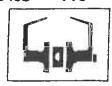
ND25D



Exit Lock

Blank place outside. Inside lever always unlocked.

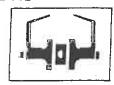
ND40S F76



Bath/Bedroom Privacy Lock

Push-burron locking. Can be opened from outside with small screwdriver. Turning inside lever or closing door releases burron.

ND44S



Hospital Privacy Lock

Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.

ND170



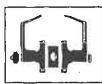
Single Dummy Trim

Dummy trim for one side of door. Used for door pull or as matching inactive trim.

Keyed Locks

SCHLAGE **ANSI**

ND50PD F82



Entrance/Office Lock*.

Push-button locking, Push-button locks outside lever until unlocked with key or by turning inside lever.

ND53PD

F109



Entrance Lock*

Turn/push-button locking; pushing and turning button locks outside lever, requirit use of key until button is manually unlock Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.

ND60PD

F88



Vestibule/Classroom Security

Latch retracted by key from outside wher outside lever is locked by key in inside lev-Inside lever is always unlocked.

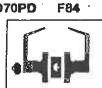
ND66PD F91



Store Lock*†

Key in either lever locks or unlocks both

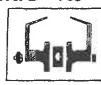
ND70PD



Classroom Lock*

Outside lever locked and unlocked by key Inside lever always unlocked.

ND73PD F90



Corridor Lock*

Outside lever locked by key outside or push-button inside. Push-button released by rotating inside lever or closing door. When outside lever is locked by key, key must be used to unlock it. Inside lever is always unlocked.

- * Available functions for small format interchangeable
- † Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Specifications

Handings

Keyed functions are reversible. Non-keyed functions are not handed.

Door Thickness:

1./w" to 17%" (35 mm to 48 mm) standard. 2" (51 mm) to 2½" (64 mm) optional extended inside.

Backsets

2 1/4" (60 mm) standard, 2 1/4" (70 mm), 3 1/4" (95 mm) and 5" (127 mm) optional.

Fronts

Steel. 11/4" x 21/4" square corner, beveled, for 21/4" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 6.

Lock Chassiss

Steel, zinc dichromate plated for corrosion resistance.

Latch Bolts

Brass, chrome plated, 1/2" throw, deadlocking on keyed and exterior functions.

Exposed Trims

Wrought brass, bronze or stainless steel. Levers are pressure cast zinc, plated to match finish symbols.

Striker

T-strike 11/6" x 23/4" (29 mm x 70 mm) x 11/6" (29 mm) lip to center with box standard. Optional strikes, lip lengths and ANSI strike box available. See page 7.

Cylinder & Keys:

Commercial: 6-pin patented Everest C123 keyway standard with two nickel silver keys per lock. Residential: 6-pin C keyway, keyed 5-pin.

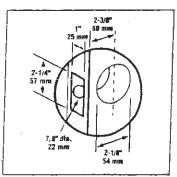
Keying Options:

Interchangeable core and Primus[®] high security cylinders. Master keying, grand master keying, and construction keying.

Warranty:

Commercial: three-year limited. Residential: Full mechanical lifetime.

Door Preparation



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

Federal

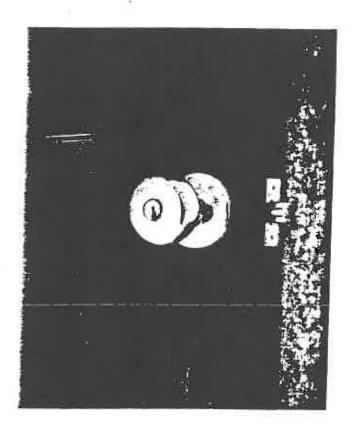
Meets FF-H-106C.

California State Reference Code

(Formerly Tide 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2" of door face.

UL / ULC:

All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol on latch front indicate listing. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



Designs & Finishes



GEORGLAN

Symbol: GEO Material: Wrought brass Finishes: 605, 606, 609, 610, 625, 626



LEVON

Symbol: LEV Material: Pressure cast zinc lever; wrought brass or bronze rose Finishes: 605, 612,

613, 626

605



6**09**



ORBIT

Symbol: ORB Material: Wrought brass or bronze Finishes: 605, 606, 609, 610, 611, 612, 613, 616, 625, 626



613

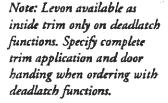


PLYMOUTH

Symbol: PLY Material: Wrought brass, bronze, or stainless steel Finishes: 605, 606, 609, 610, 611, 612, 613, 616, 625, 626, 629, 630

605





Finishes

605 Bright Brass

606 Satin Brass

Antique Brass

Bright Brass, Blackened

Bright Bronze

Satin Bronze

Cil Rubbed Bronze 613

Antique Bronze

Bright Chromium Plated

Satin Chromium Plated

Bright Stainless Steel

630 Satin Stainless Steel

TULIP



Symbol: TUL Material: Wrought brass

Finishes: 605, 606,

609, 610, 625, 626



Keyed functions available with full size interchangeable core option for Orbit design.

Functions

ANSI A156.2 Series 4000 Grade 2

Non-Keyed Functions

SCHLAGE) A10**S**



Passage Latch

Both knobs always unlocked.

A25D



Exit Lock

Blank plate outside. Inside knob always unlocked. Specify door thickness, 11/4" or 11/4".

A30D F77



Patio Lock

Push-button locking. Turning inside knob or closing door releases button, preventing lock-out.

A40S

1.:



Bath/Bedroom Privacy Lock

Push-button locking. Can be opened from outside with small screwdriver. Turning inside knob or closing door releases button.

A43D



Communicating Lock

Turn-button in outer knob locks and unlocks knob and inside thumbturn.

A170



Single Dummy Trim

Dummy trim for one side of door. Used for door pull or as matching inactive trim. Keyed Functions

SCHLAGE ANSI -

A53PD F109



Entrance Lock

Turn/push-button locking: pushing and turning button locks outside knob requir use of key until button is manually unloc Push-button locking: pushing button lock outside knob until unlocked by key or by turning inside knob.

A70PD F84



Classroom Lock

Outside knob locked and unlocked by ke Inside knob always unlocked.

A79PD



Communicating Lock

Locked or unlocked by key from outside. Blank plate inside.

A80PD F86



Storeroom Lock

Outside knob fixed. Entrance by key only Inside knob always unlocked.

A85PD F93



Hotel/Motel Lock

Outside knob fixed. Entrance by key only Push-button in inside knob activates visual occupancy indicator, allowing only emergency masterkey to operate. Rotation of inside spanner-button provides lock-ou feature by keeping indicator thrown.

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data.
- B. Warranty: Warranty materials and workmanship of sealing against leaks, adhesion, and cohesive failure for a period of two years from the date of substantial completion.
- C. References:
 - 1. American Society for Testing and Materials
 - a) ASTM C790 Recommended practices for use of latex sealing compounds.
 - ASTM C920 Elastomer Joint Sealants.
 - 2. Federal Specifications
 - a) FS TT-S-00230C (2), Sealing Compound, Elastomeric Type, Single Component (for caulking, sealing and glazing in buildings and other structures).
 - b) FS TT-S-00227E (3), Sealing Compound, Elastomeric Type, Multi-component (for caulking, sealing and glazing in buildings and other structures).

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that have been tested and found compatible with one another and with joint substrates under service and application conditions.
- Interior Sealant: Provide ASTM C 834. If no color is specified, use Gray. Location(s) of sealant for the following:
 Small voids between walls or partitions and adjacent door frames, and similar items.
 - 2. Perimeter of frames at doors, windows, and access panels which adjoin exposed interior concrete and masonry surfaces.
- C. Exterior Sealant: Provide ASTM C 920, polyurethane or polysulfide, Type M, Grade NS, Class 25, Shore A hardness of 20-40. If no color is specified, use Gray. Location(s) of sealant for the following:
 - Joints and recesses formed where frames and vents adjoin masonry, concrete, or metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations. Color to match adjacent surface.

2.2 ACCESSORIES

- A. Primers: Provide a nonstaining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.
- B. Bond Breakers: Provide the type and consistency recommended by the sealant manufacturer to prevent adhesion of the sealant to backing or to bottom of the joint.
- C. Cleaning Solvents: Provide type(s) recommended by the sealant manufacturer, except for aluminum and bronze surfaces that will be in contact with sealant.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean surfaces from dirt frost, moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Remove oil and grease with solvent. Surfaces must be wiped dry with clean cloths. When resealing an existing joint, remove existing calk or sealant prior to applying new sealant. For surface types not listed below, contact sealant manufacturer for specific recommendations.
 - Steel Surfaces: Remove loose mill scale by sandblasting or, if sandblasting is impractical or would damage
 finish work, scraping and wire brushing. Remove protective coatings by sandblasting or using a residue-free
 solvent.
 - 2. Aluminum or Bronze Surfaces: Remove temporary protective coatings from surfaces that will be in contact with sealant. When masking tape is used as a protective coating, remove tape and any residual adhesive just prior to sealant application. For removing protective coatings and final cleaning, use nonstaining solvents recommended by the manufacturer of the item(s) containing aluminum or bronze surfaces.
 - Concrete and Masonry Surfaces: Where surfaces have been treated with curing compounds, oil, or other such materials, remove materials by sandblasting or wire brushing. Laitance, remove efflorescence and loose mortar from the joint cavity.

- 4. Wood Surfaces: Keep wood surfaces to be in contact with sealants free of splinters and sawdust or other loose particles.
- B. Do not add liquids, solvents, or powders to the scalant. Mix multi-component elastomeric scalants in accordance with manufacturer's instructions.

3.2 INSTALLATION

A. Joint Width-to-Depth Ratios: Install per manufacturer's recommendation or as described below, whichever is more stringent.

Accep	itable R	atios:	<u>Minimum</u>	Maximum
a)	For n	netal, glass, or other nonporous surfaces:		1. tage ti a tagi
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
	(2)	Over 1/4 inch (6 mm)	1/2 of width	Equal to width
b)	For v	ood, concrete, masonry, or stone:		Edam to High
	(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
	(2)	Over 1/4 inch(6 mm) to 1/2 inch (13 mm)	1/4 inch (6 mm)	Equal to width
	(3)	Over 1/2 inch (13 mm) to 2 inch (50 mm)	1/2 inch (50 mm)	
	(4)	Over 2 inch (50 mm)	(As recommended	

- Unacceptable Ratios: Where joints of acceptable width-to-depth ratios have not been provided, clean out
 joints to acceptable depths and grind or cut to acceptable widths without damage to the adjoining work.
 Grinding is not required on metal surfaces.
- B. Masking Tape: Place masking tape on the finish surface on one or both sides of a joint cavity to protect adjacent finish surfaces from primer or sealant smears. Remove masking tape within 10 minutes after joint has been filled and tooled.
- C. Immediately prime prior to application of the sealant, clean out loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with sealant manufacturer's instructions. Do not apply primer to exposed finish surfaces.
- D. Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used, to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.
- E. Provide a sealant compatible with the material(s) to which it is applied. Do not use a sealant that has exceeded shelf life or has jelled and can not be discharged in a continuous flow from the gun. Apply the sealant in accordance with the manufacturer's printed instructions with a gun having a nozzle that fits the joint width. Force scalant into joints to fill the joints solidly without air pockets. Tool sealant after application to ensure adhesion. Make sealant uniformly smooth and free of wrinkles. Upon completion of sealant application, roughen partially filled or unfilled joints, apply sealant, and tool smooth as specified. Apply sealer over the sealant when and as specified by the sealant manufacturer.
- F. Thresholds: Place double band of sealant under and along all sides of all exterior thresholds.

END OF SECTION 07920

FINAL ABATEMENT REPORTS

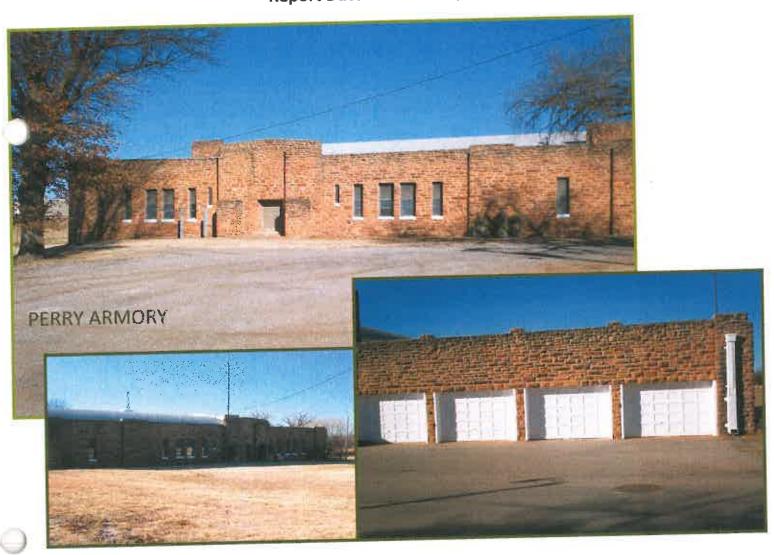


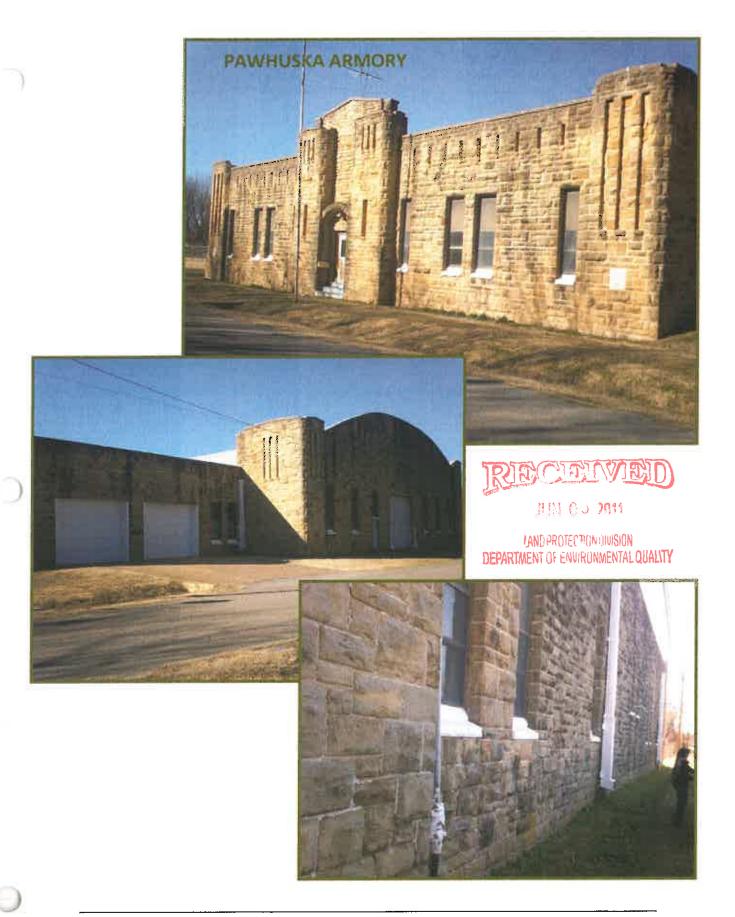
Lead Remediation 10276

Lead Remediation for Perry Armory & Pawhuska Armory

Perry Armory, 309 North 14th Street, Perry, Oklahoma Pawhuska Armory, 823 East 8th Street, Pawhuska, Oklahoma

Report Date: March 19th, 2011





SUMMARY:

Crystal Creek Environmental Solutions, Inc. (Crystal Creek) prepared preformed Lead Remediation under contract with the Department of Central Services and with oversight from the Oklahoma Department of Environmental Quality at the Perry and Pawhuska National Guard Armory. The purpose for the remediation was to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms or office space.

All remediation efforts were preformed in accordance with the Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006, Department of the Army and Air Force, National Guard Bureau and in accordance with OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead based paint abatement, indoor firing range remediation and lead dust remediation.

All work was preformed by skilled, Licensed Lead Based Paint Workers, licensed by the State of Oklahoma.

LOCATIONS:

Location 1:

309 North 14th Street, Perry, Oklahoma 823 East 8th Street, Pawhuska, Oklahoma

Table of Contents

Contract Documents and Change Orders	Section 1
Statement of Work and Addendums	Section 2
Perry and Pawhuska Photos	Section 3
Perry and Pawhuska Waste Profile & Water Test	Section 4
Waste Manifest	Section 5

SECTION 1

Contract Documents And Change Orders

SECTION 2

Statement of Work And Addendums

SECTION 3 Perry and Pawhuska Photos

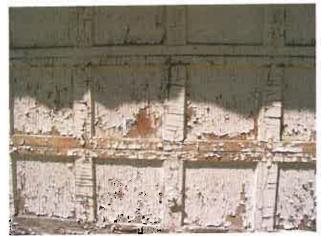


Photo: 1) Pre Lead Abatement



Photo: 2) Pre Lead Abatement



Photo: 3) Pre Lead Abatement



Photo: 4) Pre Lead Abatement



Photo: 5) Pre Lead Abatement



Photo: 6) Pre Lead Abatement



Photo: 7) Post Lead Abatement; Lead-Based Paint Frame with Paint Removed.



Photo: 9) Post Lead Abatement; Primed Door and Frame after LBP removal.



Photo: 11) Post Lead Abatement; Downspout and Window Sill Sealed with Approved Encapsulant.

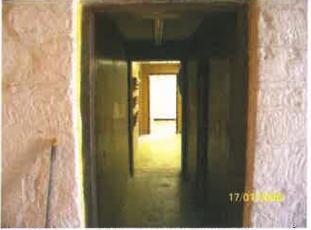


Photo: 8) Post Lead Abatement; Lead-Based Paint Door



Photo: 10) Post Lead Abatement; Floor Sealed after LBP



Photo: 12) Post Lead Abatement; Overhead Door and Jamb after LBP Encapsulated.



Photo: 13) Post Lead-Based Paint Abatement.



Photo: 15) Post Lead-Based Paint Abatement. Walls,



Photo: 17) Post Lead Abatement; Primed Door Frame after LBP Removal and Encapsulated Walls.



Photo: 14) Post Lead-Based Paint Abatement; New Door and Primed Door Frame after LBP Removal.



Photo: 16) Post Lead-Based Paint Abatement of Stair

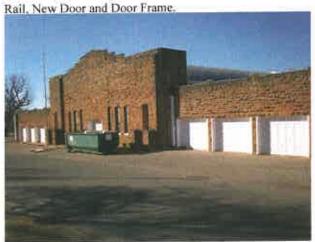


Photo: 18) Post Lead-Based Paint Exterior Abatement;



Photo: 1) Pre Lead Abatement



Photo: 2) Pre Lead Abatement



Photo: 3) Pre Lead Abatement



Photo: 4) Pre Lead Abatement



Photo: 5) Pre Lead Abatement



Photo: 6) Pre Lead Abatement



Photo: 7) Post Lead Abatement; Lead-Based Paint Frame with Paint Removed.





Photo: 9) Post Lead Abatement; New Door and Primed



Photo: 10) Post Lead Abatement; Floor Sealed after LBP



Photo: 11) Post Lead Abatement; Downspout and Window Sill Sealed with Approved Encapsulant.



Photo: 12) Post Lead Abatement; Overhead Door Casing, Wall Trim and Window Sill after LBP.



Photo: 13) Post Lead-Based Paint Abatement. New Door and Primed Door Frame after LBP Removal.



Photo: 14) Post Lead-Based Paint Abatement of Stair Rail, New Door and Door Frame.

SECTION 4

Perry and Pawhuska Waste Profile and Water Test



4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Analytical Report

Report Date:

10/29/2010

Order# Project # 2010100420

10-079

Laboratory Certificate # 7211

Client: Mr. Michael Jenkinson

Crystal Creek Environmental Solutions

1401 Cornell Parkway Oklahoma City, OK 73127 Project: Perry

Analytical Results

Client Sample ID:

Tank 1 Filtered

Sample Collected: 10/21/2010 @ 09:00

ETHD: 1

Matrix: Aqueous

Parameter

Result 0.216 Units mg/L

Analyzed On 10/28/2010 03:49:40 PM **Analyst**

Method

200.7

Respectfully Submitted:

President

Unless ETI receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Order #: 2010100420

CHAIN OF CUE JOY RECORD

SAMPLE SERIES #: 20101000170

SAMUE CONTRIBUTION OF THE	OKLAHOMA CITY OK 73118 (405) 488-2400 FAX (405) 488-2404	CANDIE TYDE	DUE DATE:	
105/	, , ,		ANALYSES	and the state of t
PHONE 947.	33	3. SLUDGE 4. OIL		
	575	9. UINER		
CLIENT CONTACT: NA Jan	6200	CONTAINER TYPE		Edvo d
10-	2 MANAGER:			
	CONTAINER SAMPLING	IG PRESERVATIVES IC		
SAMPLE	# DATE			I AR COMMENTS
Tank Tolkoned	Gerral & rose	7.00 H NO.		
SAMPLE COMPLITION		SAMPLE?	HELD PK. TIME CALIB: 4 7 10	13/4023. Sawa trek
RELINCOS SHED BY: RELINCOS SHED	DATE AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THAT I AND THE SERVING BY. THE SERVING	Take 2 CO	PPECIAL INSTRUCTIONS. RUSH DATE REQUIRED A REGULAR COMMITTE	Q



WASTE MATERIAL PROFILE SHEET



Clean Harbors Profile No. CH478746

A. GENERAL INFORMATION
GENERATOR EPA ID #/REGISTRATION #

CESQG

Chemical disinfection or some other form of sterilization has been applied to the waste

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED.

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS.

GENERATOR NAME:

Oklahoma Department of Environmental Quality

STATE/PROVINCE

OK DEPARTMENT OF PREIROR PERTAL QUALITY

Perry OK0184 CITY ENERATOR CODE (Assigned by Clean Harbors) ADDRESS 309 14th Street PHONE: (405) 317-4856 Crystal Creek Environmental Solutions CUSTOMER NAME: CR1898 CUSTOMER CODE (Assigned by Clean Harbors) ZIP/POSTAL CODE 73108 STATE PROVINCE OK Oklahoma City CITY ADDRESS 1401 Cornell Parkway #100 B. WASTE DESCRIPTION Lead Based Paint Chips and Lead Dust WASTE DESCRIPTION. PROCESS GENERATING WASTE: Paint removal and dust cleaning IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? No C. PHYSICAL PROPERTIES (at 25C or 77F) COLOR VISCOSITY (If liquid present) NUMBER OF PHASES/LAYERS PHYSICAL STATE 1 - 100 (e.g. Water) TOP 0.00 SOLID WITHOUT FREE LIQUID various POWDER 101 - 500 (e.g. Motor OR) MIDDLE 0.00 BY VOLUME (Approx.) MONOLITHIC SOLID 501 - 10,000 (e.g. Molasses) BOTTOM LIQUID WITH NO SOLIDS 0.00 LIQUID/SOLID MIXTURE > 10.000% FREE LIQUID ODOR TOTAL ORGANIC MELTING POINT FF (C) BOILING POINT PF (PC) SETTLED SOLID NONE CARBON % TOTAL SUSPENDED SOLID <= 95 (<=35) MILD < 140 (<60) SLUDGE <= 1% 95 - 100 (35-38) STRONG 140-200 (60-93) GAS/AEROSOL 1.9% 101 - 129 (38-54) > 200 (>93) Describe: >= 10°a >= 130 (>54) BTU/LB (MJ/kg) SPECIFIC GRAVITY ASH FLASH POINT OF (OC) οH < 2.000 (<4.6) < 0.8 (e.g. Gasoline) < 73 (<23) <= 2 > 20 < 0.1 2.000-5,000 (4.6-11.6) 0.8-1.0 (e.g. Ethanoi) 73 - 100 (23-38) 2.1 - 6.9 Unknown 0.1 - 1.05,000-10,000 (11.6-23.2) 1.0 (e.g. Water) 101 -140 (38-60) 7 (Neutrali) 1.1 - 5.0 > 10,000 (>23.2) 141 -200 (60-93) 7.1 - 12.4 1.0-1.2 (e.g. Antifreeze) 5.1 - 20.0 > 1.2 (e.g. Methylene Chloride) Actuat: > 200 (>93) >= 12.5 (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is COMPOSITION used, please supply an MSDS. Please do not use abbreviations.) HOM MAX MIN CHEMICAL 25.0000000 15.0000000 DUST, DEBRIS, DIRT, RAGS 75.0000000 50.0000000 **LEAD BASED PAINT CHIPS** 50.0000000 % **LEAD DUST** DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" NO YES LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? If yes, describe, including dimensions: DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? NO VES DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER YES NO POTENTIALLY INFECTIOUS MATERIAL? Lacknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies: YES NO The waste was never exposed to potentially infectious material

YES

YES

YES

W319

SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE.

NO

NO

NO



Clean Harbors Profile No. CH478746

, CONSTITUENTS

e these values based on testing or knowledge?

✓ Kriowledge

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste. customer knowledge-Removal of lead-based paint and clean lead dust from old firing range.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	waste profile. Please note that REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE	
D004	ARSENIC	5.0	_			•	
D005	BARIUM	100.0				Y	
D006	CADMIUM	1.0		******		Y	
D007	CHROMIUM	5.0			********	~	
0002	LEAD	5.0	14.0000	14.0000000	PPM	** *** * * * * * * * * * * * * * * * * *	
	MERCURY	0.2				V	
DC09		1.0			• • • • • • • • •	V	
D010	SELENIUM	5.0				V	
D011	SILVER		••••••			MAN UMB	NOT
	VOLATILE COMPOUNDS			OTHER CONSTITUE	NIS	MAX UOM	APPLICABLE
D018	BENZENE	0.5		BROMINE			V
D019	CARBON TETRACHLORIDE	0.5		CHLORINE			· · · · · · · · · · · · · · · · · · ·
D021	CHLOROBENZENE	100.0					-
D022	CHLOROFORM	6.0		FLUORINE			· · · · · · · · · · · · · · · · · · ·
D028	1.2-DICHLOROETHANE	0.5		IODINE		***********	
D029	1,1-DICHLOROETHYLENE	0.7		SULFUR			
D035	METHYL ETHYL KETONE	200.0		POTASSIUM			
D039	TETRACHLOROETHYLENE	0.7		SODIUM			
D040	TRICHLORGETHYLENE	0.5		AMMONIA			
D043	VINYL CHLORIDE	0.2		CYANIDE AMENABLE		*******	
)	SEMI-VOLATILE COMPOUN	DS		CYANIDE REACTIVE			.
D023	c-CRESOL	200.0		CYANIDE TOTAL	.,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
D024	m-CRESOL	200.0		SULFIDE REACTIVE			٧
D025	p-CRESOL	200.0		HOCs		PCBs	
D026	CRESOL (TOTAL)	200.0				1	
D027	1,4-DICHLOROBENZENE	7.5		✓ NONE		NONE	
D030	2,4-DINITROTOLUENE	0.13		< 1000 PPM		< 50 PPM >=50 PPM	
D032	HEXACHLOROBENZENE	0.13		>= 1009 PPM		İ	
	HEXACHLOROBUTADIENE	0.5				IF PCBS ARE PRESEN WASTE REGULATED I	
D033	HEXACHLOROETHANE	3.0				CFR 761?	-,
D034	~	2.0				YES 🗸	NO
D036	NITROBENZENE			,		1 123	
D037	PENTACHLOROPHENOL	100.0					
D038	PYRIDINE	5.0					
D041	2,4,5-TRICHLOROPHENOL	400.0					
D042	2,4,6-TRICHLOROPHENOL	2.0	********				
	PESTICIDES AND HERBICI						
D012	ENDRIN	0.02					
D013	LINDANE	0.4					
D014	METHOXYCHLOR	10.0		ı			
D015	TOXAPHENE	0.5					
D016	2.4 D	10.0					
D017	2,4,5-TP (SILVEX)	1.0					
D020	CHLORDANE	0.03					
D031	HEPTACHLOR (AND ITS EPOX	DE) 0.008					
ADDITION	AL HAZARDS			·		THAT THE MAN IT CURN IT IS	LIANDI EDO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

✓ NO (If yes, explain)

CHOOSE ALL THAT APPLY

OSHA REGULATED CARCIMOGENS FUMB DEA REGULATED SUBSTANCE EXPLOSIVE NONE OF THE ABOVE POLYMERIZABLE REACTIVE MATERIAL RADIOACTIVE

Clean Harbors Profile No. CH478746

REGULA	TORY	SIA	JS .								
Y YES		NO	USEPA HAZARDOUS WASTE	Mile and the latest the control of t							
			D008	and the supposes the substitution of the suppose of							
YES	Ÿ	NO	DO ANY STATE WASTE CODE	S APPLY?							
			Texas Waste Code	as Waste Code							
YES	~	NO		IS WASTS CODE							
		,,,,	A special control of the particular control of the								
✓ YES		NO	IS THIS WASTE PROHIBITED	FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?							
			LDR CATEGORY: This	is subject to LDR.							
	ف		(W. 1) V.	ENDING SECTION AND THE SECTION OF THE PROPERTY OF THE SECTION OF T							
YES	•	NO	IS THIS A UNIVERSAL WASTI	: ' WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?							
YES		NO		BE MANAGED AS A RORA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?							
YES		NO									
YES	· ·	11.0		WASTE GENERATE A F006 OR F019 SLUDGE?							
YES	4			LIECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?							
YES	~			VOC'S IN CONCENTRATIONS >=500 PPM?							
YES	-	NO		GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?							
YES	4	NO	DOES THIS WASTE CONTAIN	AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?							
YES	V	NO	IS THIS CERCLA REGULATED) (SUPERFUND) WASTE?							
YES	•	NO	IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?								
			Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)								
YES	4	NO	IF THIS IS A US EPA HAZARD	OUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?							
	YES	3	NO Does the waste stream	n come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene							
				se the original source of the waste is from a chamical manufacturing, coke by-product recovery, or petroleum refinery process?							
	YE			ce of this waste stream a facility with Total Annual Benzene (TAB) > 10 Mg/year? Megagram/year (1 Mg = 2,200 ibs)							
			e TAB quantity for your facility? for this determination is: Knowled	Visit period and visit is developed to the visit of the v							
			ne knowledge :	GO OF THE STREET							
			THE RESERVE THE PERSON NAMED IN								
DOT/TD0											
			PING NAME:	O C // EAD\ O DO III							
			RDOUS WASTE, SOLID, N.	U.S., (LEAD), 9, FG III							
I. TRANS ISTIMATE	PORT. D SHII	ATION PMENT	REQUIREMENTS FREQUENCY ONE TIME	WEEKLY MONTHLY QUARTERLY YEARLY VOTHER as needed							
			NTAINERIZED	BULK LIQUID BULK SOLID							
1-20		_	RS/SHIPMENT	- TON 1110P							
TORAGE	CAPA	CITY.	<i>55</i>	GALLONS/SHIPMENT: O Min - O Max GAL. SHIPMENT UOM: 10N YAHD TONS:YARDS/SHIPMENT: O Min - O Max							
ONTAINE			DI CTT	TONE TANDESCRIPTION OF MAIL OF MAIL							
	UBIC Y										
	OTE T/ THER:		✓ DRUM								
			DRUM SIZE: 55								
SPECIAL	REQU	EST									
COMMENT		ROUES	TS:								
route to LG											
	-4.4	x -21 * 4	- of an authorities in this even althorised	occuments is correct to the best of my knowledge. It also certify that any samples submitted are representative of the actual waste. If as Generalor grants Clean Harbors the sufficiently to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.							
	ors ther	Diene a		-							
Clean Haro	rocs disc			PATE							
I nereby de Clean Hard	rocs disc		SIGNATURE	NAME (PRINT) TITLE DATE							
I nereby de Clean Haro	rocs disc		SIGNATURE M.	NAME (PRINT) OATE OATE 1-13-11							



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH478744

A. GENERAL INFORMATION
ENERATOR EPA ID #/REGISTRATION # ENERATOR CODE (Assigned by Crean Harbors)

CESOG OK0183 GENERATOR NAME: Pawhuska Oklahoma Department of Environmental Quality STATE/PROVINCE

STATE/PROVINCE

OK ZIP:POSTAL CODE

74056

ADDRESS 823 East 8th Street CUSTOMER CODE (Assigned by Clean Harbors) ADDRESS 1401 Cornell Parkway #100

CR1898

CUSTOMER NAME: Oklahoma City

PHONE: (405) 317-4856 Crystal Creek Environmental Solutions OF ENVIRONMENTAL QUALITY

LANDPROTECTION DIVISION

ZIP/POSTAL CODE 73108 OK

B. WASTE DESCRIPTION Lead Based Paint Chips, Debris and Lead Dust WASTE DESCRIPTION: Paint removal and dust cleaning PROCESS GENERATING WASTE: IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? No C. PHYSICAL PROPERTIES (at 25C or 77F) COLOR VISCOSITY (If liquid present) NUMBER OF PHASES/LAYERS PHYSICAL STATE 1 - 100 (e.g. Water) TOP 0.00 SOLID WITHOUT FREE LIQUID various POWDER 101 - 500 (e.g. Motor Oil MIDDLE 0.00 BY VOLUME (Approx.) MONOLITHIC SOLID 501 - 10,000 (e.g. Molasses) BOTTOM 0.00 LIQUID WITH NO SOLIDS > 10,000 LIQUID/SOLID MIXTURE % FREE LIQUID ODOR TOTAL ORGANIC BOILING POINT PF (PC) MELTING POINT PF (PC) % SETTLED SOLID NONE CARBON % TOTAL SUSPENDED SOLID <= 95 (<=35) MILD < 140 (<60) <= 1% SLUDGE 95 - 100 (35-38) STRONG 140-200 (60-93) 1.9% GAS/AEROSOL 101 - 129 (38-54) > 200 (>93) >= 10% Describe: >= 130 (>54) BTU/LB (MJ/kg) SPECIFIC GRAVITY ASH FLASH POINT OF (C) oH < 2,000 (<4.6) < 0.8 (e.g. Gasoline) < 73 (<23) <= 2 < 0.1 > 20 2 000-5,000 (4.6-11.6) 0.8-1.0 (e.g. Ethanol) 73 - 100 (23-38) 2.1 - 6.9 Unknown 0.1 - 1.05,000-10,000 (11,6-23.2) 1.0 (e.g. Water) 101 -140 (38-60) 7 (Neutral) 1.1 - 5.0 > 10,000 (>23.2) 1.0-1.2 (e.g. Antifreeze) 141 -200 (60-93) 7.1 - 12.45.1 - 20.0Actual > 1.2 (e.g. Methylene Chloride) > 200 (>93) S- 12 5 (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is J. COMPOSITION used, please supply an MSDS. Please do not use abbreviations.) MAX HOM MIN CHEMICAL 25.0000000 15.0000000 DUST, DEBRIS, DIRT, RAGS 75.0000000 % 50.0000000 LEAD BASED PAINT CHIPS 50.0000000 % **LEAD DUST** DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" NO LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONGRETE >3")? If yes, describe, including dimensions: YYES NO DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING: ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? NO YES Lacknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies: NO YES The waste was never exposed to potentially infectious material NO YES Chemical disinfection or some other form of sterilization has been applied to the waste. NO YES I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. NO YES I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WEITED. SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. W319 SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. G13



Clean Harbors Profile No. CH478744

	NS'		

re these values based on testing or knowledge? ✓ Knowledge Testing

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

customer knowledge-Removal of lead-based paint and clean lead dust from old firing range.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

CRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE	
004	ARSENIC	5.0			.,	<u>¥</u>	
	BARIUM	100.0				<u>*</u>	
005		1.0		********		V	
006	CADMIUM	5.0		***	** • 4 4 7 - 2 6	¥	
007	CHROMIUM						
008	LEAD	50				· · · · · · · · · · · · · · · · · · ·	
009	MERCURY	0.2		******			
010	SELENIUM	1.0					
2011	SILVER	5.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
• • • • •	VOLATILE COMPOUNDS			OTHER CONSTITUE	ENTS	MAX UOM	NOT APPLICABI
0018	BENZENE	0.5					
019	CARBON TETRACHLORIDE	0.5		BROMINE		*************	
		100.0		CHLORINE			·
0021	CHLOROBENZENE	6.0		FLUORINE			·
0022	CHLOROFORM			IODINE			~
0028	1,2-DICHLOROETHANE	0.5		SULFUR			¥
0029	1.1-DICHLOROETHYLENE	0.7					¥
0035	METHYL ETHYL KETONE	200.0		POTASSIUM			· · · · · · · · · · · · · · · · · · ·
0039	TETRACHLOROETHYLENE	0.7		SODIUM			
0040	TRICHLOROETHYLENE	0.5	••••	AMMONIA		******	
0043	VINYL CHLORIDE	0.2		CYANIDE AMENABLE			
		une		CYANIDE REACTIVE			
	SEMI-VOLATILE COMPOU	200.0		CYANIDE TOTAL			
D023	o-CRESOL			SULFIDE REACTIVE			Y
D024	m-CRESOL	200.0					
D025	p-CRESOL	200 0		HOCs		PCBs	
D026	CRESOL (TOTAL)	200.0		V NONE		✓ NONE	
D027	1.4-DICHLOROBENZENE	7.5		< 1000 PPM		< 50 PPM	
D030	2.4-DINITROTOLUENE	0.13		>= 1000 PPM		>=50 PPM	
	HEXACHLOROBENZENE	0.13		>= 100011111		IF PCBS ARE PRESE	NT IS THE
D032		0.5		••		WASTE REGULATED	BY TSCA 40
D033	HEXACHLOROBUTADIENE					CFR 761?	
D034	HEXACHLOROETHANE	3.0		··		YES V	/ NO
D036	NITROBENZENE	2.0		'		1 ,20	
D037	PENTACHLOROPHENOL	100.0					
D038	PYRIDINE	5.0		**			
D041	2,4,5-TRICHLOROPHENOL	400.0					
D042	2,4,6-TRICHLOROPHENOL	2.0					
	PESTICIDES AND HERBIC	CIDES		••			
		0.02					
D012	ENDRIN			• •			
D013	LINDANE	0.4		• •			
D014	METHOXYCHLOR	10.0		••			
D915	TOXAPHENE	0.5		••			
D016	2.4-D	10.0					
D017	2,4,5-TP (SILVEX)	1.0					
D020		0.03					
				**			
D031	THE PRODUCT AND THE PERCENT						

DEA REGULATED SUBSTANCE

CHOOSE ALL THAT APPLY

POLYMERIZABLE

✓ NO (If yes, explain)

EXPLOSIVE

BADICACTIVE

FUMING

REACTIVE MATERIAL

OSHA REGULATED CARCINOGENS

NONE OF THE ABOVE

Clean Harbors Profile No. CH478744

i. Re	EGULA	TORY	STAT	us	
V	YES		NO	USEPA HAZARDOUS V	ASTE?
				D008	Market 1 to 18 to
	YES	V	NO	DO ANY STATE WAST	CODES APPLY?
				September 1911 11 10 10 10 10 10 10 10 10 10 10 10 1	CAMPENDERS IN THE SECRETARY OF THE SECRE
				Texas Waste Code	OVINCIAL WASTE CODES APPLY?
	YES	*	NO	DO ANT CANADIAN FE	CANADAY AND FOR CORPORATION OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A
¥	YES		NO	IS THIS WASTE PROH	BITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
				LDR CATEGORY: VARIANCE INFO:	This is subject to LDR.
					THE SHARE THE SHARE THE SHARE AS A SHARE AS A SHARE THE SHARE THE SHARE AS A SHARE THE
	YES	V	NO	IS THIS A UNIVERSAL	
	YES		NO		F THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESOG)?
	YES		NO	IS THIS MATERIAL GO	NG TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(III)?
	YES	~	NO		THIS WASTE GENERATE A F006 OR F019 SLUDGE?
	YES	*	NO		M SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?
	YES	~	NO		NTAIN VOC'S IN CONCENTRATIONS >= 500 PPM?
	YES		NO		NTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?
	YES	4	NO	DOES THIS WASTE CO	NTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?
	YES	V	NO	IS THIS CERCLA REGI	LATED (SUPERFUND) WASTE?
	YES	4	NO	IS THE WASTE SUBJE	CT TO ONE OF THE FOLLOWING NESHAP RULES?
				Hazardous Organi	NESHAP (HON) rule (subpart G) Pharmaceutica's production (subpart GGG)
	YES	V	NO		IZARDOUS WASTE. DOES THIS WASTE STREAM CONTAIN BENZENE?
	12.0	YE			to a facility with one of the SIC codes listed under heavens NESHAP or is this waste regulated under the benzene
		76	•	NESHAP rule:	because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or permeent reliably process?
		YE	S	NO is the general	ig source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?
				e TAB quantity for your fa	
)		The	basis	for this determination is: I	nowledge of the Waste Or Test Data Knowledge Testing
		De	scribe	the knowledge :	egiptes and the companies of the compani
G. D	отлос	INFO	RMA	TION	
DOT				PPING NAME	
	NA3	1077,	HAZ	ARDOUS WASTE, SO	ID, N.O.S., (LEAD), 9, PG III
H.	TRANS	PORT	ATIO	REQUIREMENTS	ME WEEKLY MONTHLY QUARTERLY YEARLY VOTHER as needed
ESI	TIMATE	D SHI	PMEN	T FREQUENCY ONE T	BULK SOLID
			-	ONTAINERIZED	BULK LINGIE
				ERS/SHIPMENT	GALLONS/SHIPMENT: 0 Min -0 Max GAL SHIPMENT UOM: TON YARD
	DRAGE NTAINE			55	TONSYARDS/SHIPMENT: 0 Min - 0 Max
	CI	UBIC '	YARD	BOX PALLET	
	TC	OTE T	ANK	✓ DRUM	
	O.	THER	:	DRUM SIZE: 55	
1 80	ECIAL I	SEO!	FST		
	DIMENT			STS:	
	ute to LG				
GENE	RATOR	S CER	TIFICA	TION	Laborated share and an experience of the artistic and artistic and the artists and the artists and the
Ca	ereby ce ean Harb	dify the	t all info	ormation submitted in this and a discrepancy curing the appea	ttached documents is correct to the bast of my knowledge. I also certify that any samples submitted are representative of the actual waste. It rai process, Generator greats Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.
-					DATE
	A	THO	HIZEC	SIGNATURE	Midrael Triberes Congretate
-					- Marie Char

SECTION 5

Waste Manifest

Piec	ise print in type. (Form deal)	gried for use on elile (12-pitch) typewater.							Approved, OMB No.	2050-0039
*	UNIFORM HAZARDOUS WASTE MANIFEST	i. Generator D Number	2 Page 1 a	(808)	racy Response	1.5		000	ander	٧WI
	E. Gen tuatris Histor and Sire	ng Address Hannard and the state of the stat	89	SEL HOUSE	3 3.00 mil 7 mil 5	Carrena Ta	តា រកស់សេច្ច ៩៦៨១:	: • '		
B Da	109 Littly Street			DAME						
	Generator's Prome:			1						
	6 Transporter I Company Nan	ne			and the second s		U.S. EPA IC			
		represental Services Inc.							322250	
	7. Transporter 2 Company Nan	T.B					U.S EPAID!	AULI NOGE		
	8. Designated Facility Name er	nd Cha hadrace					U.S. EPAID	Variber		
	8. Designates nation name e						0.000	99736 MG	438370	
	5 million most & 1	mile mostle of lot US Highway	ps 281 8/412				OND	O D D	138310	
	Facily's Ptoter	860 Mai 1647-1860								
-		ton รักมเปล็กรู Proper Shaping Name (Hazaro C	lass, ID Number		19. Carast	čis –	11. Total	12. Unit	13. Waste Code	9 \$
40.4	HAM BY O PECKED GROUP !!	ery);			No.	Туја	Quantity .	Wit/Vol.		
4	-MAT077:55A	ZASEDOUS WASTE SOUR, N	OH READ D PO						BUON	
GENERATOR	ж Ж					111		T		
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										and a
	15 GENERATOR'S/OFFER	OR'S CERTIFICATION: I herapy declare that the added, and are in all respects in proper condition	ne contents of this consignment of for transport according to ac-	nt are fully and Modele intern	d gginerfaly de Alconsisted h at	schbad above anal governm	etta regulations	lipping nam Dexport sl	e, and are cassined paci- prient and I am the Prin	kageu. nary
	Event or Least he that feet	corrects of this consideratent conform to the ter	ms of the attracted EPN Action	a content a	(Consent					
	I certify that the waste mit Generator's Other arts Printed 1	nin Lettu) statishent dentifed in 40 CFR 262.2		speratory or p Agrialore	o (a a essa sina	in questery get	erace) is due.		táonth Da	у Үеаг
	Generalo, signator z Lussas v	Attention of	ŀ	20	1		me 85		3. 1/2	0 11
4	16 International Stagmants		Export from	- 11 S	Polt of as	7n (p. *				
Z	Transporter signature for exp		L_TEXESTI OF	102	Date leav		a the second of		The state of the s	Producer, Cale resident where the state of
_	17. Transporter Advingsfiedging									
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SPO									Month Da	y Year
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1	ià Daueparci	Market and an accompany of the contract of the			1	water and the same of the same	<u> </u>		<u> </u>	
	186. Enscreçancy invication St	Mice Quart	Птуре		Reddua		Partal Re	ection	Fall Re	ejection
				Ua:	viesi Reisrenc	Number:				
2-	19) Attempte Facility for Gore	e. a(r)					U.S. EPA ID	Number		
=										
T.C	195. Attempte Fability for Gore									
ED	the fighting of Alle 1214 Far	rig (CiGenten)							Month D	ay Year
NA		and the second second second second second second second second second second second second second second second								
DESIGNATED	17. Hreamous Waste Report	Management Method Codes (i.e. codes for had	produs waste treatment (USD)	ear, and recy	Cing systems)		4.			
S		2	-				3.			
1	For Supplied Park to Decree	er Coemical Cariff range of receipt of hazardo	e rajpine to our rule o	andest event	as noted to	no tide				
	Finders Vygad Van e	to be to a series and the matter state of		Grands en 120 Grands	250				Morth Da	iy Year
1			1							



Land Disposal Restriction Notification Form

Page: 1 of 1

Printed Date : Feb 15, 2011

	TAL SERVICES	**************		*********					
MANIFEST INF		enartment of En	vironmental Quality	r	Manifest Tracking In	fo			
	Address: 309 14th Street Perry,OK 73077				000098808MWI				
EPA ID	#: CESQG		Sal	les Order No: 7T3354519	9				
LINE ITEM INF	ORMATION								
Line Item:	Page No:	Profile No:	Treatability Group	Dí,	LDR Disposal Category	Votes			
1.	1	CH478746	NON-WASTEWA	TER	2 (This is subject to LDR	.)			
EPA Waste Co	ide	-L		EPA Wa	ste SubCategory				
D008	****			Toxicity C	haracteristic for Lead				
		C	ertification			Applies to Manifest Line Items			
Pursuant to 40 Part 268.	CFR 268.7(a), I h	ereby notify that	this shipment contain	s waste res	stricted under 40 CFR	1,			
Waste analysis Signature : Title :	data, where avail	Secholade.	Print Nar	ne	inary Brike	<u>bi/(</u>			

Plea	se nri	int or type. (Form desig	gned : use on elite (12-pitch) typewrit	er)			19/20/			Approved. OMB No. 2050-0039
4	UNIF W	FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Numb er	2. Pag	3 (90	ency Respons	718	4. Manifest 1	0	
Allen water	5. Ge	nerator's Name and Maili	ng Address	unlity	Generato	's Site Address	s (if different tha	n mailing addres	S)	
		14) Latth Styazat		5011008)	TEAM	E				
	47	rator's Phone:	33.730866							
200	6. Tra	insporter 1 Company Nan	ne	-				U.S. EPAID N		
T. ST. ST. ST.	10	lysis historia Er	Wisommantal Services into							372250
100	7. Tre	ansporter 2 Company Nan	ne					U.S. EPAID N		
		ST DIE DESIGN		51	1 =	10		U.S. EPA ID N		
		signated Facility Name ar								
-	6	man cost & 1	asi Morescein LLC mele noma or lot 135 Highw	rays 281 à 412				OKD	0.60	438376
		aynolis (1673	860 1580 (597-3500							
			tion (including Proper Shipping Name, Hazan	d Class, ID Number,		10. Conta	iners	11. Total	12. Unit	13. Waste Codes
	9a. HM	and Packing Group (if				No.	Туре	Quantity	Wt./Vol.	10. 110.00
		1. MA30 77: HA	g AFFRING WESTERS	N.O.S.; (LEAO), 9	PQ		İ		80	50008
GENERATOR	30	314				25	Dm	500	7	La company of the second of th
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		13.					+			
		3.								
ì	_	4.								
			ons and Additional Information	:			1	<u> </u>	<u> </u>	
W. C		marked and labeled/plac	OR'S CERTIFICATION: I hereby declare the carded, and are in all respects in proper conduction of this consignment conform to the inimization statement identified in 40 CFR 26 Typed Name	lition for transport according a terms of the attached EPA	to applicable inte Acknowledgmen	rnational and months	auonai governii	ientai regulationa	nipping nam	Month Day Year
700000	Gen	100	rypod realid		1		Grace	well.		\$ 1/4 M
*	16. i	nternational Shipments	Import to U.S.	Expo	ort from U.S.	Port of	entry/exit:			
IF	Trar	nsporter signature (for exp	ports only):				ving U.S.:			
出	17. 1	Fransporter Acknowledgme	ent of Receipt of Materia ls larne Varne							Month Day Year
F	Tran	sporter 1 Printed/Typed N	łame		Signature I			And the second second		12161
SPC	_	15			Signature		29			Month Day Year
A	Tran	sporter 2 Printed/Typed N	vame		Oignature	. I see				
K			Maria San II					···		
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į	18a.	Discrepancy Indication S	Quanti ty	∟ Туре	L	Residue		Farilai Ne	ejecuon	
	1				N	anifest Referer	nce Number:			
2	18b	. Alternate Facility (or Gen	nerator)					U.S. EPAID	Number	
FACILITY										
FAC	Fac	ility's Phone:						Ш		Month Day Yea
9	18c	. Signature of Alternate Fa	acility (or Generator)							I I I
A							-1		<u>.</u>	
GNATED	19.	Hazardous Waste Report	Management Method Codes (i.e., codes for	hazardous waste treatment	, disposal, and re	cycling systems	3)	4.		
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Land Disposal Restriction Notification Form

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R 268.7(a), I he	reby notify that th	is shìpment contain	s waste res	tricted under 40 CFR	1.		
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	Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials		Date leav	nig v.a			
	Transporter 1 Printed/Typed Name	Signati	ure	1275		-	Month Day Year
2	Daniel & Black have	1		Xind.			
IN ANSPORTER	Transporter 2 Printed/Typed Name	Signat	ure			·	Month Day Year
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	18. Discrepancy				·		
THE PART OF STREET, ST	18a. Discrepancy Indication Space Quantity	Туре	Residue	o Number	Partial Rej	естоп	Full Rejection
-	18b. Alternate Facility (or Generator)		Manifest Reference	e muniber:	U.S. EPA ID N	lumber	
						÷,	
ACILII	Facility's Phone:				1		
om å	18c. Signature of Alternate Facility (or Generator)				<u> </u>		Month Day Year
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardo	ous waste treatment, disposal, a	nd recycling systems)				
	1. H132	3.			4.		
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous m	aterials covered by the manifest	t except as noted in Ite	m 18a	V		
. 1	Printed/Typeki Name	Signat	ure		Lym	1 1	Month Day Year

se print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generator ID Number	22. Page 23. %	lanifest Tracking Num	ber	pproved. OMB No. 2050
24. Generator's Name				
25. Transporter Company Name		U.S. EPA ID No	115	8747
26. Transporter Company Name	1 00	U.S. EPA ID NO	ımber	وأدووية
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any))	28. Containers No. Type		30. Unit Wt./Vol. 31. Waste Codes	
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32. Special Handling Instructions and Additional Information			· · · · ·	· · · · · · · · · · · · · · · · · · ·
TransporterAcknowledgment of Receipt of Materials				
	Signature			Month Day
44. TransporterAcknowledgment of Receipt of Materials Printed/Typed Name	Signature			Month Day
15. Discrepancy				
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disc	nsal and recycling systems)			
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_						U.S. EPA ID	Number	
25.	Transporter Company Name							
26.	Transporter Company Name		•			U.S. EPA ID	Number	
27a.	27b. U.S. DOT Description (including Proper Shipping Na	ıme, Hazard Class, ID Number,	Т	28. Containers		29. Total 30. Unit		
HM	and Packing Group (if any))			No.	Туре	Quantity	Wt./Vol.	31. Waste Codes
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UN	FORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number (Continuation Sheet)		22. Page	23. Manif	est Tracking Nu	ımber	n Approved, OMB No. 2050
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34. Prin	TransporterAcknowledgment of Receipt of Materials ted/Typed Name	Signature		··			Month Day
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FINAL REPORT

DCS PROJECT NO. 11277

PERRY AND PAWHUSKA ARMORIES

INDEX

- 1. Sealed floors Photos Perry Armory
- 2. Sampling & Analysis Perry Armory
- 3. Hazardous Waste Disposal Manifest
- 4. Waste Acceptance Notification
- 5. Sealed floors Photos Perry Armory
- 6. Sampling & Analysis Perry Armory
- 7. Hazardous Waste Disposal Manifest
- 8. Waste Acceptance Notification





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Page 2 of 6





Page 3 of 6





Page 4 of 6





Page 5 of 6





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry Armory

i ojetu

Perry, OK

Location: Project No.:

N/A

QuanTEM ID	Client ID	Matuiu	79		Reporting		Date/Time	
	Chem ID	Matrix	latrix Parameter	Results	Limits	Units	Analyzed	Method
001	P-A-01-1	Wipe	Lead	<16.0	16	weelen Te	10/12/14 14 00	
002	P-A-02-1	Wipe	Lead	25.3	16	ug/sq. Ft.		W EPA 7420 (1
003	P-B-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.		W EPA 7420 (1
004	P-B-02-I	Wipe	Lead	<16.0		ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1
005	P-B-03-I	Wipe	Lead		16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1
006	P-B-04-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1
007	P-C-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1
008	P-C-02-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1
009	P-D-01-1	Wipe		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (I
010	P-D-02-I	•	Lead	28.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
011	P-D-02-1	Wipe	Lead	47.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
012		Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
	P-D-04-I	Wipe	Lead	76.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
013	P-E-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
014	P-E-02-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	. ,
015	P-E-03-I	Wipe	Lead	<16.0	16	ug/sq. Ft,	10/13/11 14:00	W EPA 7420 (1)
016	P-E-04-I	Wipe	Lead	<16.0	16		10/13/11 14:00	W EPA 7420 (1)
017	P-F-01-I	Wipe	Lead	<16.0	16		10/13/11 14:00	W EPA 7420 (1) W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified, EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AJHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Perry Armory

Location: Project No .: Perry, OK

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	P-F-02-I	Wipe	Lead	<16.0	16	nales Et	10/12/11 14 20	
019	P-F-03-1	Wipe	Lead	<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
020	P-F-04-1	Wipe	Lead	11,100	16	ug/sq. Ft.		W EPA 7420 (1)
021	PS-A-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.		W EPA 7420 (1)
022	PS-B-01-1	Wipe	Lead	<16.0		ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
023	PS-C-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
024	PS-D-01-I	Wipe	Lead		16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
025	PS-E-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
026	PS-F-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft,	10/13/11 14:00	W EPA 7420 (1)
027	PS1-A-01-I	Wipe		<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
028	PS1-B-01-I	•	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (I)
029	PS1-C-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
030	PS1-D-01-1	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
031		Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
032	PS1-E-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
032	PS1-F-01-I	Wipe	Lead	<16.0	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set 1D:

200704

Date Received:

10/12/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Perry Armory

Project: Location:

Perry, OK

Project No.: N/A

AIHA ID: 101352

QuanTEM

ID Client ID

Matrix

Parameter

Reporting

Limits Units Date/Time

Analyzed

Method

Authorized Signature:

Results

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified, EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 9278 Test: Lead Date: 10/13/2011 Matrix: Wipe

Lab Number: Approved By: 200704

Approved By: Rebecca Sparks
Date Approved: 10/13/2011

Notes:

Blank Data:

Type of Blank	Blank Value
ICB	
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit	
ccv	4.5	5	5.5	
FCV	4.5.	4.84	5.5	
ICV	0.8	1.1	1.2	
RLVS	0.256	0.34	0.384	

Duplicate Data:

Recovery Data:

Sample Number	,	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3		0.000	5.449	6.015	110.4	6.013	110.4	0.0
MS-W2		0.000	5.525	6.085	110.1	6.145	111.2	1.0
MS-WI		0.000	5.460	6,128	112.2	6.027		1.7

Authorized Signature:

Rebecca Sparks, Analyst



Lead Chain-of-Custody

2033 Herhage Park Drive, Oxiahoma Cily, OK 73120-7502 (800) 822-4656 (405) 765-7272 Fax (405) 755-2068

www.quantom.com

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Project Name:

Acct.#

Company Name: Intelor Soules Inc

Project Location:

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Saturday FedEll Shipping - Cull TO SCHEMULE Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oxianome City, OK 73105-8617 Mark Feckage MOLD FOR EATURDAY PICKUP*

Lead Chain-of-Custody

2032 Hortage Park Crive, Ottahoma City, OK 73120-7502 (860) 822-4650 (405) 755-7272 Fax: (408) 765-2058

WWY.quentem.com

THE BOX FOY LAST CLOSE CO. Lab No.

Project Number: Project Manne: A Contin Company Name: [NOTON SIVICES, INC. Project Location: Lenk

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B - Paint Chips	C - Surfece / Dunt Wighter	D - Bulk Missellengous	E - Air Casactte	P - Other (SPECIFY)	

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Saturday Fodex Shipping - CALL TO SCYNEDULE Use this address for Saturday Fodex only: 422D N. Sans Fe Ave.. Oddnome City, OK 73105-9517 Mark Package 'HOLD FOR SATURDAY FICKLIP'



Lead Chain-of-Custody

2033 Hortege Park Drive, Okiahoma City, OK 73120-7502 (800) 822-4650 (405) 755-7272 Fax: (405) 755-2048

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200704 The Box Ser Leb Use Only Lab No.

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Project Name:

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Company Namo: Lualion Solvices Inc

Project Location:

Project Mumber:

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Sample Description

Sample Number

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TURNAROUND TIME	8алн Ову	1 24 Hour	3-D@y	8-day
	ripes	notes:		

C - Stefact / Door ! D - Bulk Mirastone

5 - Palis Chips

A - Sol

P-Other (SPECIF E-Air Censories

CONTACT INFORMATION	Marshall	Chausin m	Phone	The state of the s	TAMES

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S-2-01-1 7-10-7

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151-10-01-1

Misich Idizly 3:00 OM Mand U. Brandon 1158 4

Saturday Fedex Shipping - CALL TO SCHEDULE Use this address for Saturday Fedex only: AZZD N. Santa Fe Ave., Oktahoms Chy, OK 73105-861? Mark Peckage HOLD FOR SATURDAY PRIXITY

		writer.)						n Approved, OMB No. 205
WASTE MANIFEST	1. Generator ID Number	2. P	age 1 of 3. Eme	rgency Respons	e Phone	4. Manifes	Tracking No	umber UZSS FL
			Genera	or's Site Addres	s (if different l	han mailing addr		
			I.					
Generator's Priche: 6. Transporter 1 Company Name	3					U.S. EPA ID	Number	
7. Transporter 2 Company Name	Δ					U.S. EPA ID	Number	
r. Honapeliser a company reason	•							
						U.S. EPA ID	Number	te ozet —
ecuty's Phone:								
a. 9b. U.S. DOT Description Meno Packing Group (if an	n (including Proper Shipping Name. Haz ny))	rard Class, ID Number,		10. Conta No.	iners Type	11. Total Quantity	12, Unit Wt/Vol.	13. Waste Codes
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3.								
VIII.								and replaced to single people for the first section of the section.
14,								
4. Special Handling Instructions						<u> </u>		
marked and late/ed/placard Exporter (certify that the or	R'S CERTIFICATION: I hereby declare ded, and are in all respects to proper condents of this consignment conform to t	ndition for transport according the terms of the attached EPA	g to applicable into A Acknowledgment	mational and na	escribed abov	e by the proper s	nipping name	, and are classified, packaged
i certify that the waste minin Benerator's/Offeror's Printed/Typ	mization statement i castified in 40 CFR in and Name	262.27(a) (if I am a large qua	intity generator: or	or Consent.	-9		A II CAPOIT OIL	ipment and I am the Primary
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LAND DISPOSAL RESTRICTION AND SUBPART CC WASTE **DETERMINATION CERTIFICATION**

Generator Name: STATE OF OKLAHOMA DEPARTMENT

CENTRAL

309 N. 14TH ST

State Manifest #:

Manifest Doc. #: 001480236FLE

PERRY, OK 73077

Generator USEPA ID#: OKCSQ1111111

INSTRUCTIONS: In Column 1, identify all USEPA hazardous waste codes that apply to this waste approval/shipment. In Column 2, indicate the appropriate Treatability Group, Non-WasteWater (NWW) or WasteWaster (WW) for each waste code. In Column 3, in accordance with Subpart CC, identify whether or not your waste contains >500 ppmw VOC (YES or NO). In Column 4, enter the appropriate Subcategory key # from Table - 4, If applicable, and also enter "Debris" in Column 4 if the waste is debris that will be treated using one of the alternative treatment technologies provided by 26845. In Column 5, reference the appropriate Waste Management paragraph(s) from Table -3. In Column 6, enter the Reference Number(s) from Table - 1 for all regulated constituents associated with Subpart CC VOC's, F001-F005, F039, D001-D043. If the waste is a California List waste, complete the boxes below and identify the Reference Number(s) of the appropriate California List constituent(s) identified in Table -2.

Check this box if using a continuation sheet.									
MANIFEST LINE ITEM #	1. WASTE CODE(S)	2. NWW or WW	3. SUBPART CC YES/NO	4. SUBCATEGORY	5. WASTE MANAGEMENT	6. REGULATED CONSTITUENTS			
1	D008	NWW	NO		· · · · · · · · · · · · · · · · · · ·				

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Waste Express, Inc.

Waste Acceptance Notification

Dear STATE OF OKLAHOMA DEPARTMENT CENTRAL:

STATE OF OKLAHOMA DEPARTMENT CENTR. 309 N. 14TH ST PERRY, OK 73077

06-OCT-11

Waste Express has reviewed your Waste Profile Sheets:

AES-57178 LEAD PAINT CHIPS AND DEBRIS

And approves the referenced waste(s) for management at our Kansas City Facility.

This letter is to notify you that Waste Express has the Authorizations and permits for the waste(s) described on the referenced Waste Profile Sheets(s) and is providing herein that management of such waste(s) delivered to Waste Express, will be in accordance with all applicable federal, state, and local laws and regulations.

Thank you for the opportunity to be of service, Please contact us if you have any questions.

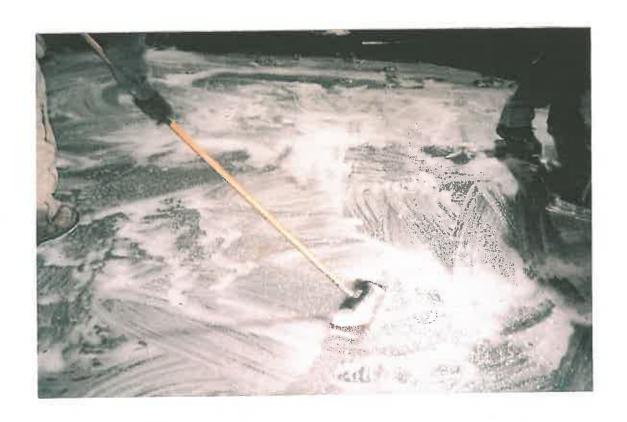
Respectfully yours,

Paul Shields Office Manager





Page 1 of 5





Page 2 of 5





Page 3 of 5





Page 4 of 5





Page 5 of 5



RES Periody Park Drive / Okicheme City, OK 75120 / (405) 716-7272 / Pau (405) 755-2255

Environmental Chemistry Analysis Report

Qualitate Sci ID:

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Oklahoma City, OK 73116

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Wipe poterials must meet ATTM 51792 criteria. Airchool describes limits and resultant reporting limits may not be valid for non-ASTM E1797 wip: munici.

EPA Establica 7420 (1) = EPA 680/85-33/200 Proputation Modified. EPA 7420 Analysis Modified EPA Method 7092 (3) = EPA 600/2-93/200 Preparation Medified, EPA 7002 Analysis Modified



2003 Huntage Ferk Unive / Chicarama City, CN 79160 / (408) 725-7272 / Pez (408) 739-2025

Environmental Chemistry Analysis Report

Quietem satid:

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Enurcon Services, Inc.

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This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor coes it represent an origining assurance program unless so noted. These reports are for the exclusive use of the elicit and are not to be reproduced without specific without permission.

Unless otherwise noted, upon receipt the condition of the temple was acceptable for maly us.

With materials must must ASTM £1792 criteria. Eschool detection limbs and resolved reporting limits may not be walld for non-ASTM \$1792 wipe material.

EPA ideblod 7420 (1) = EPA 535/R-93/200 Prependion Modified, EFA 7420 Analysis Modified

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2000 Nortage Park David / Oktoberto City, CK 75120 / (405) 753-7272 / 745 (405) 755-8958

Environmental Chemistry Analysis Report

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Supplemental Report QAQC Results

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18. International Shipments Transporter stending (for exert	AND GREEN CO.	Export from U.S.	Port of entry/exit: Date leaving U.S.:			
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17. Transpoler Acknowledgmer Transpoler 1 Pariso Typed No Transpoler 2 Printed Typed No	me Tild 18 de	Signatu	re.			Month Day Yea
Transporter 2 Printed Typed No		Signatu				Month Day Yea
18. Disceparcy		<u> </u>				F-1
10s. Discrepancy tedisation So	oce	L_1 тура	Residue	Partial Re	ejection	Full Rejection
19h. Allemata Facility (or Garia	ratorj		Manifest Reference Number	U.S. EPA ID	Number	
Facility's Phone: 13c, Signature of Alternasis Pac	lity for Generator)					Month Day Ye
Facility's Phene: 13c. Signature of Aliemass Pac 13. Nazardous Wasta Report to	anagement Method Codes (i.e., codes	or hazardous waste irealment, disposal, an	d recycling systems)			
1	2.	3		4.		
20. Designs by Pacifity Owner of	Operator: Certification of receipt of ha	zardous materials covered by the manifest	except as noted in Item 18a			
Printed Typed Name	2	Signatu 	re			Month Day Yea
Ž.	Previous editions are absolete.				C	ENERATOR'S INITIAL COI

LAND DISPOSAL RESTRICTION AND SUBPART CC WASTE **DETERMINATION CERTIFICATION**

Generator Name: STATE OF OKLAHOMA DEPARTMENT

CENTRAL

8TH RUBEL AVE.

PAWHUSHA, OK 74056

Generator USEPA ID#: OKCSQ11111111

Manifest Doc. #: 001480237FLE

State Manifest #:

INSTRUCTIONS: In Column 1, identify all USEPA hazardous waste codes that apply to this waste approval/shipment. In Column 2, indicate the appropriate Treatability Group, Non-WasteWater (NWW) or WasteWaster (WW) for each waste code. In Column 3, in accordance with Subpart CC, identify whether or not your waste contains >500 ppmw VOC (YES or NO). In Column 4, enter the appropriate Subcategory key # from Table - 4, If applicable, and also enter "Debris" in Column 4 if the waste is debris that will be treated using one of the alternative treatment technologies provided by 26845. In Column 5, reference the appropriate Waste Management paragraph(s) from Table -3. In Column 6, enter the Reference Number(s) from Table - 1 for all regulated constituents associated with Subpart CC VOC's, F001-F005, F039, D001-D043. If the waste is a California List waste, complete the boxes below and identify the Reference Number(s) of the appropriate California List constituent(s) identified in Table -2.

Check this box if using a continuation sheet. 4. SUBCATEGORY 6. REGULATED 2. NWW or 3. SUBPART CC 5. WASTE MANIFEST 1. WASTE CONSTITUENTS CODE(S) ww YES/NO MANAGEMENT LINE ITEM # NWW NO D008

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature

Print Name

Page 1 of 1

Waste Express, Inc.

Waste Acceptance Notification

Dear STATE OF OKLAHOMA DEPARTMENT CENTRAL:

STATE OF OKLAHOMA DEPARTMENT CENTR. 8TH RUBEL AVE. PAWHUSHA, OK 74056

06-OCT-11

Waste Express has reviewed your Waste Profile Sheets:

AES-57179 LEAD PAINT CHIPS AND DEBRIS

And approves the referenced waste(s) for management at our Kansas City Facility.

This letter is to notify you that Waste Express has the Authorizations and permits for the waste(s) described on the referenced Waste Profile Sheets(s) and is providing herein that management of such waste(s) delivered to Waste Express, will be in accordance with all applicable federal, state, and local laws and regulations.

Thank you for the opportunity to be of service, Please contact us if you have any questions.

Respectfully yours,

Paul Shields Office Manager

CONFIRMATION SAMPLING

ARMORY LEAD CONFIRMATION SAMPLING PAWHUSKA ARMORY 823 EAST 8TH STREET PAWHUSKA, OKLAHOMA

Prepared For:

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson Avenue

Oklahoma City, OK 73102

April 10, 2012



ENERCON SERVICES, INC. 6525 North Meridian, Suite 400 Oklahoma City, Oklahoma 73116 (405) 722-7693 Fax: (405) 722-7694

Prepared by:

Marshall L. Branscum Lead-Based Paint Inspector

OKINSR-13415

Reviewed by:

Emmett W. Muenker, M.E. Lead-Based Paint Inspector/Risk Assessor OKRASR-11260

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3.0	CONFIRMATION PROCEDURES	1
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5.0	CONCLUSIONS	6

APPENDICES

- APPENDIX A Scope of Work for Confirmation Lead Sampling
- APPENDIX B Lead-Based Paint Firm and Individual License
- APPENDIX C Post-Remediation Initial Confirmation Sampling Results IFR & IFR Storage & Office Area
- APPENDIX D Post-Remediation Confirmation Re-Sampling Round 1 Results IFR & IFR Storage & Office Area
- APPENDIX E Post-Remediation Confirmation Re-Sampling Round 2 Results IFR & Office Area
- APPENDIX F Post-Remediation Confirmation Re-Sampling Round 3 Results IFR & Office Area
- APPENDIX G Post-Remediation Confirmation Re-Sampling Round 4 Results Office Area and Initial Post-Sealant Confirmation Sampling Results IFR
- APPENDIX H Final Post-Sealant Confirmation Sampling Results IFR

1.0 PURPOSE AND SCOPE

This clearance sampling was requested by the Oklahoma Department of Environmental Quality, Land Protection Division, in order to confirm that lead remediation at the Pawhuska Armory, 823 East 8th Street, Pawhuska, Oklahoma, had been satisfactorily completed. Enercon Services, Inc. (ENERCON) was contracted to conduct confirmation wipe samples following remediation using the sampling protocols described in the Scope of Work provided in Appendix A.

2.0 BACKGROUND

The State of Oklahoma has determined that a number of armories located throughout the State that are not longer needed are to be transferred to local communities. Prior to these transfers, environmental investigations were conducted by the Oklahoma Department of Environmental Quality to determine if there are any environmental issues associated with these armories. As a result, inspections for lead contamination and lead-based paint have been conducted, resulting in contracts for remediation of lead contamination by private contractors. In order to determine if the contamination has been satisfactorily remediated following remediation, confirmation testing is being done by firms licensed by the State to conduct Lead-Based Paint Inspections and Clearance Tests. These firms are independent of the remediation contractor. The remediation contractor for the Pawhuska Armory was Abatement Systems, Inc., 2400 West College Street, Broken Arrow, Oklahoma, 74012.

3.0 CONFIRMATION PROCEDURES

Confirmation of the adequacy of remediation is done by collecting wipe samples on the floors and/or walls of the armory on a room by room basis using the sampling criteria set forth in the Scope of Work (Appendix A). All wipe samples are collected by an Oklahoma-licensed LBP Inspector or Risk Assessor who is employed by an Oklahoma-licensed Lead-Based Paint Firm. Copies of these licenses are provided in Appendix B. The procedure involves using a floor plan layout of the armory to mark all sample locations and collecting samples using a 12" by 12" template and lead wipes to collect the samples. In the Indoor Firing Range (IFR), the walls, floor and ceiling were gridded using a 3x3 grid for ranges/rooms 50 feet long or less. For ranges/rooms longer than 50 feet, the range/room was divided into two halves, with each half using a 3x3 grid for sampling. For other areas of the armories, single wipe samples were collected from the floor in areas where lead-based

paint abatement had been completed or within ten feet of a doorway. For larger rooms, a 3x3 gridded area was sampled for elevated lead dust levels. Following remediation, confirmation wipe samples were collected. If any sample within a 3x3 grid in an indoor firing range or range storage room exceeded $200 \,\mu\text{g/ft}^2$, the entire 3x3 gridded area was re-cleaned and re-tested. After all areas of the IFR and IFR storage rooms tested below $200 \,\mu\text{g/ft}^2$, these rooms were sealed and tested with a threshold of $40 \,\mu\text{g/ft}^2$. The Inspector marked the grid intersections and wipe sample locations with duct tape in preparation for sampling. Procedures for individual wipe samples as outlined for EPA/HUD dust wipe sampling were used for this project.

4.0 CONFIRMATION SAMPLING

4.1 Results of Initial Confirmation Sampling Following Remediation in the Indoor Firing Range (IFR), IFR Storage Room, Drill Floor and Office Areas

The initial round of confirmation testing was conducted on September 7, 2011, following remediation in the IFR, IFR Storage Room, Drill Floor and Office Areas. The IFR was approximately 110 FT long; therefore, it was divided into two 55 FT long 3 x 3 gridded areas for wipe sampling. A total of 30 wipe samples were collected from the walls, floor and ceiling of the IFR and 18 wipe samples were collected from the IFR Storage Room. One of the 30 wipe samples collected from the IFR and one wipe sample collected from the IFR Storage Room contained lead in excess of 200 μ g/ft². A total of 25 wipe samples were collected from the Drill Floor and Office Areas, with 15 wipe samples exceeding the 40 μ g/ft² threshold. ENERCON was unable to access Rooms 18, 19, and 20 for sampling. Appendix C contains sketches showing the areas that exceeded the threshold during the initial round of sampling, along with the laboratory report and chain of custody.

4.2 Results of Confirmation Re-sampling Round 1 Following Re-cleaning in the Indoor Firing Range, IFR Storage Room, and Office Areas

The areas that failed the initial confirmation testing in the IFR, IFR Storage Room, Drill Room and Office Areas were re-cleaned and then re-sampled on September 21, 2011. A total of three wipe samples were collected in the IFR and a total of three wipe samples were collected in the IFR Storage Room. One of the three wipe samples collected in the IFR exceeded the threshold of 200 μ g/ft². None of the three wipe samples collected in the IFR Storage Room area exceeded the threshold during the re-sampling. A total of 16 samples were collected from the Drill Floor and Office Areas, with five exceeding the 40 μ g/ft² threshold. ENERCON was still unable to access Rooms 18, 19, and 20 for sampling. Sketches showing the location of the wipe samples, the laboratory report and chain

of custody are found in Appendix D.

4.3 Results of Confirmation Re-Sampling Round 2 Following Re-Cleaning in the Indoor Firing Range and Office Areas

The areas that failed the Re-Sample Round 1 confirmation testing in the IFR and Office Areas were re-cleaned and re-sampled on October 11, 2011. At this time, access to Rooms 18, 19, and 20 was available. These rooms were inaccessible during previous sampling rounds as the Pawhuska Police Department was using them for evidence storage. A total of three wipe samples were collected in the IFR, with one sample exceeding the 200 μ g/ft² threshold. A total of 12 wipe samples were collected from the Office Areas, with eight wipe samples exceeding the 40 μ g/ft² threshold. Sketches showing the location of the wipe samples, the laboratory report and chain of custody are provided in Appendix E.

4.4 Results of Confirmation Re-Sampling Round 3 Following Re-Cleaning in the IFR and Office Areas

The areas that failed the Re-sample Round 2 confirmation testing in the IFR and Office Areas were re-cleaned and then re-sampled on November 16, 2011. A total of three wipe samples were collected in the IFR, with none above the 200 μ g/ft² threshold. A total of ten samples were collected from the Office Areas, with six exceeding the 40 μ g/ft² threshold. Sketches showing the location of the wipe samples, the laboratory report and chain of custody are located in Appendix F.

4.5 Results of Initial Confirmation Sampling Following Application of a Sealant in the Indoor Firing Range and IFR Storage Rooms and Confirmation Re-Sampling Round 4 in the Office Areas

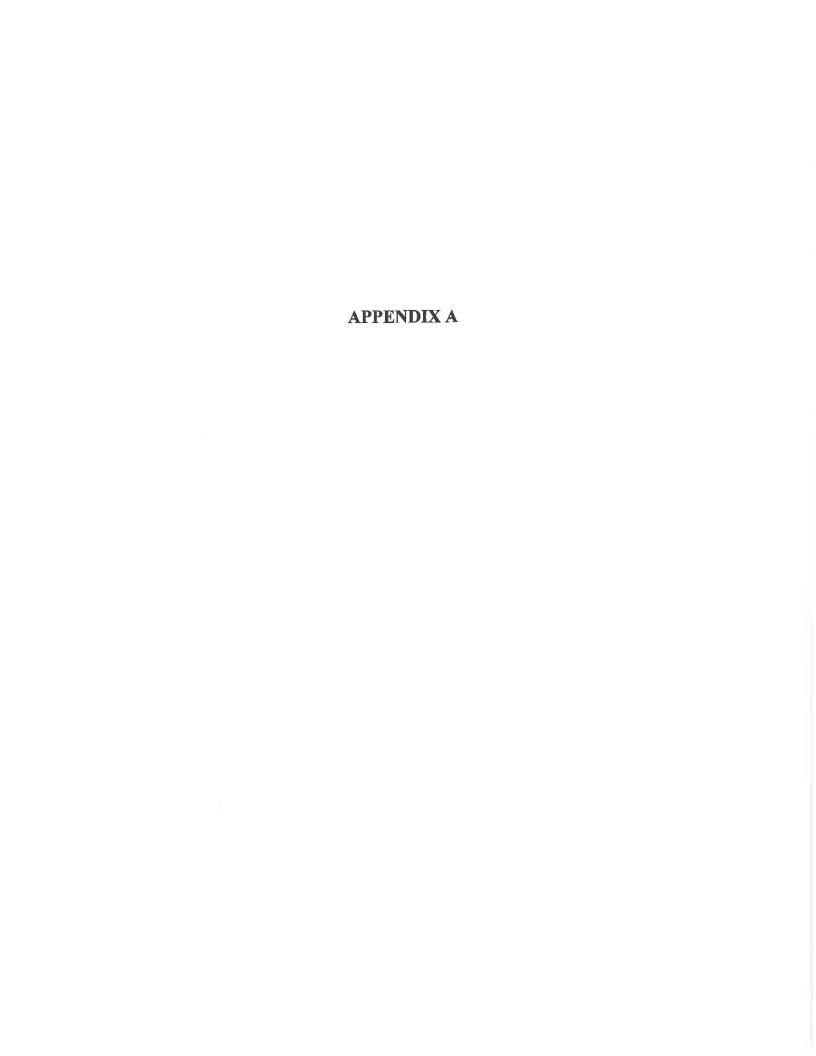
On December 9, 2011, following application of a sealant to the IFR and the IFR Storage Room, confirmation wipe samples were collected in these areas. Following application of the sealant to the walls, floor, and ceiling, ODEQ recommended collecting only two wipe samples from each 3x3 grid in the IFR and only one wipe sample from each 3x3 grid in the IFR Storage Room. A total of 20 wipe samples were collected from the IFR, with three exceeding the $40 \mu g/ft^2$ threshold. A total of six wipe samples were collected from the IFR Storage Room, with none exceeding the $40 \mu g/ft^2$ threshold. In the rooms that exceeded the threshold during the previous sampling round in the Office Areas, a total of six wipe samples were collected, with one exceeding the $40 \mu g/ft^2$ threshold. An

epoxy coating was applied to the floor of Room 15 to seal the floor and no further testing was deemed necessary. Sketches showing the location of the wipe samples, the laboratory report and chain of custody are found in Appendix G.

4.6 Results of Final Confirmation Sampling Following Re-Cleaning and Resealing in the IFR On December 20, 2011, following re-cleaning and resealing the areas of the IFR that exceeded the 40 μg/ft² threshold, confirmation wipe samples were collected from these areas. A total of three samples were collected, with none exceeding the 40 μg/ft² threshold. A sketch showing the results of retesting, along with the laboratory report and chain of custody are provided in Appendix H.

5.0 CONCLUSIONS

Based upon the results of confirmation sampling and the application of an epoxy coating to the floor in Room 15, it is concluded that the lead hazard associated with the walls, floors and ceilings in the IFR and IFR Storage Room and the floors in the remainder of the Armory have been effectively mitigated.



SCOPE OF WORK

For Armory Lead Confirmation Sampling

The Department of Environmental Quality will soon be hiring contractors to remediate lead-based paint and lead contaminated dust from former National Guard Armories located in Sulphur, Minco, Marlow, Pawhuska, Perry, and Kingfisher, Oklahema. Once abatement is complete, confirmation wipe samples will need to be taken on floors in areas where lead-based paint abatement was performed and in rooms that previously tested high for lead dust on floors. Attached is the Confirmation Sampling Instructions (Attachment 1). Below is a detailed list of what will be required at each site.

- Perform each sampling event within five (5) days of notice from remediation contractor.
- Provide DEQ with sampling plan for approval prior to each sampling event. There will be up to five (5) sampling events per armory.
- Travel to the each site up to (5) times to take confirmation wipe samples.
- A total of 250 confirmation wipe samples will be taken per armory.
- A total of 1500 confirmation wipe samples will be taken for this project.
- Samples will be run with a 24 hour turnsround time and results with sample location map will be submitted to DEQ for review.
- Once all sampling is complete at an armory, a Confirmation Sampling Report will be submitted to DEQ for approval.
 - o A total of six (6) Confirmation Sampling Reports shall be submitted.
 - One report will be submitted for each armory.

Confirmation Sampling Instructions

Protocol for Collecting Wipe Samples

- 1. Prepare a rough sketch of the area(s) or room(s), to be wipe sampled.
 - a. Mark all sample locations on map before sample event starts.
 - b. When possible DEQ will supply a floor plan map with sample locations marked.
- 2. A new set of clean, impervious gloves should be used for each sample to avoid cross contamination of samples.
- 3. Wipe Samples
 - a. If using Ghost Wipes TM, tear open the individually sealed package.
 - Remove the moistened wipe. Unfold the wipe.

 b. If using a dry media such as MCE or Whatman TM filter, moisten the filter with distilled or deionized water prior to sampling.
- 4. Place a 12 inch by 12 inch, 1 foot square, template on the area to be wiped.
- Apply uniform firm pressure while wiping the area inside the template.
- 6. To insure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares decreasing in size.
- 7. After collecting a sample, fold the filter or wipe inward and place into a container and number it. Note the number at the sample location on the sketch.
- 8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory with every 10 samples.

Confirmation Sampling Instructions

Indoor Firing Range

- 1. To properly sample the IFR, a 3 section by 3 section grid system shall be used. Samples shall not be collected on all one section or end of a grid. A total of 3 samples shall be collected per 3 section by 3 section grid.
 - Each range surface less than 50 feet in length shall be divided into a 3 section by 3 section grid. (Figure 1 and Figure 2)
 - Each range surface more than 50 feet in length shall be divided in half and a 3 section by 3 section grid shall be established on each half. (Figure 3 and Figure 4)
- 2. If a sample fails, the entire 3 section by 3 section grid shall be re-cleaned and resampled.
 - Confirmation samples taken after remediation are considered to have failed if results exceed 200 ug/ SF.
 - Confirmation samples taken after sealing are considered to have failed if results exceed 40 ug/SF.
- 3. If more than ten (10) confirmation samples fail, the entire IFR shall be re-cleaned.

4. DEQ reserves the right to take additional confirmation samples.

Areas Where Lead-Based Paint Abatement Has Been Performed

- 1. One (1) confirmation wipe sample shall be taken on the floor within ten feet of the abatement area.
 - a. If a confirmation sample for lead dust is located within ten feet of the lead-based paint abatement area, this sample can count as both the lead-based paint and lead dust confirmation sample (See below for details on lead dust confirmation sampling).
- 2. Sample results in excess of 40 ug/SF are considered to have failed. If a sample result fails, the area shall be re-cleaned and re-sampled.

Areas Outside IFR with Elevated Lead Dust on Floor

- 1. A 3 section by 3 section grid system shall be used. Samples shall not be collected on all one section or end of a grid. A total of 3 samples shall be collected per 3 section by 3 section grid.
 - Each floor surface less than 50 feet in length shall be divided into a 3 section by 3 section grid. (Figure 1 and Figure 2)
 - Each floor surface more than 50 feet in length shall be divided in half and a 3 section by 3 section grid shall be established on each half. (Figure 3 and Figure 4)
- 2. Sample results in excess of 40 ug/SF are considered to have failed. If a sample fails, the entire 3 section by 3 section grid shall be re-cleaned and re-sampled.
- 3. DEO reserves the right to take additional confirmation samples.

Figure 1. ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

Wipe Sample		
	Wipe Sample	
		Wipe Sample

Figure 2. NOT ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

Wipe Sample	<u>OR</u> Wipe Sample	Wipe Sample
Wipe Sample		
Wipe Sample		

Figure 3. ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

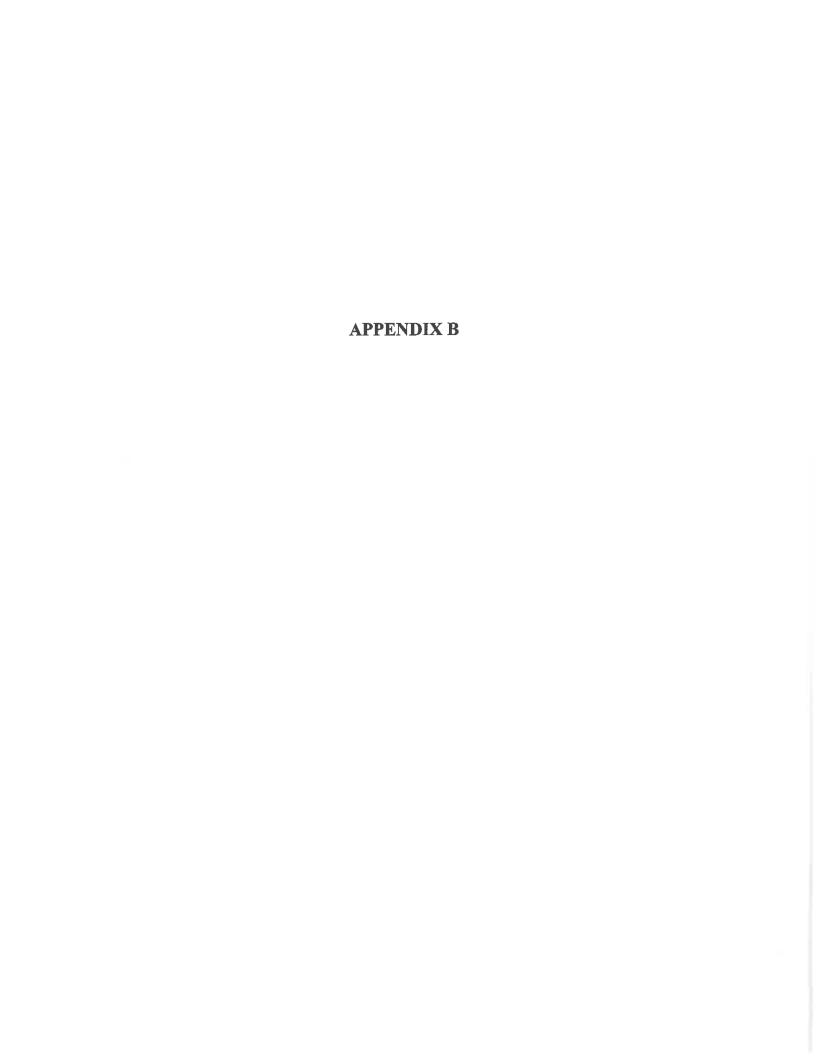
Wipe Sample					Wipe Sample
	Wipe Sample		Wipe Sample		
		Wipa Sample		Wipe Sample	

Surface Center

Figure 4. NOT ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

			Wipe Sample	
Wipe Sample	Wipe Sampla	Wipa Sample	Wipe Sample	
			₩Ipe Sample	

Surface Center



Department of Environmental Quality

Thus as to Centry That

ENERCON SVC INC

has met the specifications of the Okhhema Leed-Based Paint Management .we

FIRM

Certification #: OKFIRM11152

This conditate is valid from the dat. of unsures and express as presented by law.

Issued on: 4/1/2012

Expires on: 3/31/2013

Division Director Air Quality Division



Air Quality Division **Environmental Programs Manager**

Department of Environmental Quality

This is to Certify That

MARSHALL BRAINSCUM

has men the specifications of the Oklahoma Lead-Based Paint Management Act and is certified as a Loub Based Paint

INSPECTOR

Certification #: OKINSR13415

This certificate is valid from the date of measure and exputes as paracribed by lev.

Expares on: 3/31/2013

Issued on: 4/1/2012

Division Director
Air Quality Division



Environmental Programs Manager Air Quality Division

Department of Environmental Quality

The k to Confy That

EMMETT MUENKER

has that the specifications of the Okhhoma Lead-Based Paint Management her and is centified as a Lead-Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR11260

This contribute is valid from the date of issuance and expires as prescribed by law

Issued on: 4/1/2012

Expires on: 3/31/2013

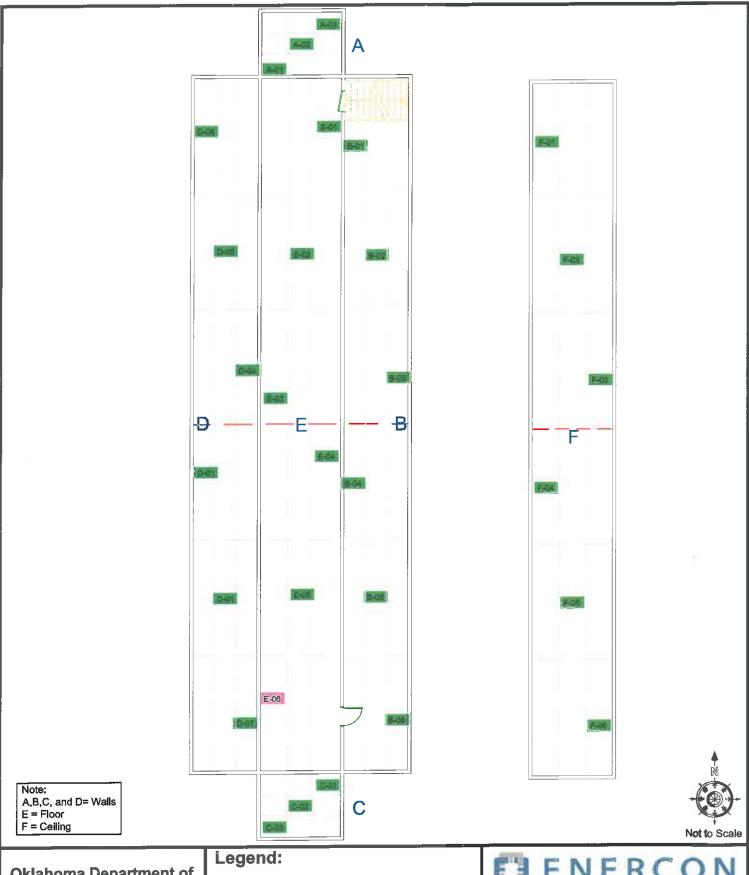
Division Director

Air Quality Division



Environmental Programs Manager Air Quality Division





Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

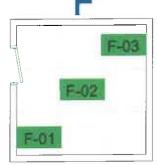
=Dust Wipe Sample Location Positive, > 200 ug / SF =Dust Wipe Sample Location Negative,< 200 ug / SF



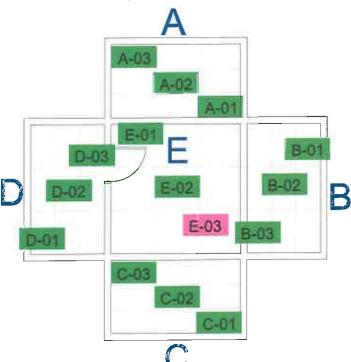
Lead Wipe Sample Locations IFR (Initial) 9-7-11

Project Number: ENMISC2447

Storage (PWS)



Storage (PWS)



Not to Scale

Note:

A,B,C, and D= Walls

E = Floor

F = Celling

Legend:

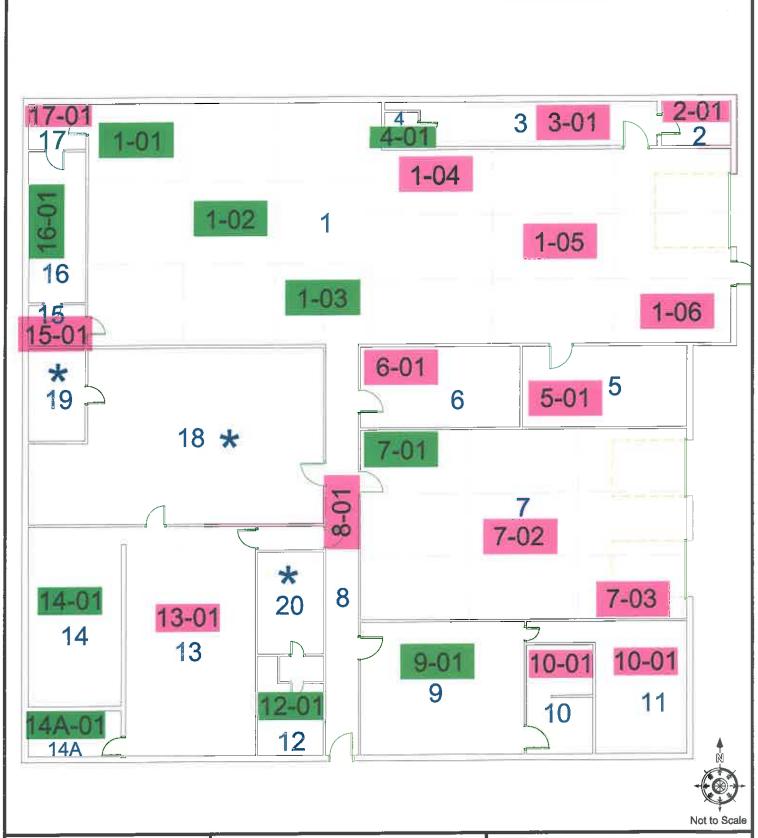
=Dust Wipe Sample Location Positive, > 200 ug / SF ==Dust Wipe Sample Location Negative,< 200 ug / SF

ENERCON

Lead Wipe Sample Locations Storage Room (Initial) 9-7-11

Project Number: ENMISC2447

Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.



Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

=Dust Wipe Sample Location Positive, > 40 ug / SF ======Dust Wipe Sample Location Negative, < 40 ug / SF



ENERCON

Lead Wipe Sample Locations Main Floor (Initial) 9-7-11

Project Number: ENMISC2447



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

199570

Date Received:

09/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/9/2011

AlHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM					Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
001	PW-1-01	Wipe	Lead	16.6	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
002	PW-1-02	Wipe	Lead	25.9	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
003	PW-1-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
004	PW-1-04	Wipe	Lead	140	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
005	PW-1-05	Wipe	Lead	53.9	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420(1)
006	PW-1-06	Wipe	Lead	80.1	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
007	PW-2-01	Wipe	Lead	47.4	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
008	PW-3-01	Wipe	Lead	65.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
009	PW-4-01	Wipe	Lead	34.7	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
010	PW-5-01	Wipe	Lead	137	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
011	PW-6-01	Wipe	Lead	53.6	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
012	PW-7-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
013	PW-7-02	Wipe	Lead	91.5	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
014	PW-7-03	Wipe	Lead	60.2	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
015	PW-8-01	Wipe	Lead	71.3	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
016	PW-9-01	Wipe	Lead	35.9	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
017	PW-10-01	Wipe	Lead	143	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
·		F				-		

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

199570

Date Received:

09/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/9/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

A845

Project:

Acct. No.:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	PW-11-01	Wipe	Lead	138	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
019	PW-12-01	Wipe	Lead	29.9	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420(1)
020	PW-13-01	Wipe	Lead	179	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
021	PW-14-01	Wipe	Lead	36.1	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
022	PW-14A-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
023	PW-15-01	Wipe	Lead	195	16	ug/sq. Ft.	09/08/11-16:30	W EPA 7420 (1)
024	PW-16-01	Wipe	Lead	33.1	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
025	PW-17-01	Wipe	Lead	135	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
026	PW-A-01	Wipe	Lead	23.8	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
027	PW-A-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
028	PW-A-03	Wipe	Lead	33.1	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
029	PW-B-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
030	PW-B-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
031	PW-B-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
032	PW-B-04	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
033	PW-B-05	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
034	PW-B-06	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420(1)

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

199570

Date Received:

09/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/9/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	PW-C-01	Wipe	Lead	85.4	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
036	PW-C-02	Wipe	Lead	134	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
037	PW-C-03	Wipe	Lead	98.8	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
038	PW-D-01	Wipe	Lead	132	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
039	PW-D-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
040	PW-D-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/08/11 16:30	W EPA 7420 (1)
041	PW-D-04	Wipe	Lead	154	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
042	PW-D-05	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
043	PW-D-06	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
044	PW-E-01	Wipe	Lead	142	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
045	PW-E-02	Wipe	Lead	96.6	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
046	PW-E-03	Wipe	Lead	30.8	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
047	PW-E-04	Wipe	Lead	29.1	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
048	PW-E-05	Wipe	Lead	84.6	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
049	PW-E-06	Wipe	Lead	1,390	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
050	PW-F-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
05 1	PW-F-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

199570

Date Received:

09/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/9/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

Date/Time Reporting **OuanTEM** Units Analyzed Method Limits Results Client ID Matrix **Parameter** ID 16 W EPA 7420 (1) PW-F-03 <16.0 ug/sq. Ft. 09/09/11 10:30 052 Wipe Lead W EPA 7420 (1) 09/09/11 10:30 <16.0 16 ug/sq. Ft. 053 PW-F-04 Wipe Lead 09/09/11 10:30 W EPA 7420 (1) <16.0 16 ug/sq. Ft. Wipe Lead 054 PW-F-05 ug/sq. Ft. 09/09/11 10:30 W EPA 7420 (1) 25.5 16 055 PW-F-06 Wipe Lead 09/09/11 10:30 W EPA 7420 (1) 16 ug/sq. Ft. 056 PWS-A-01 Wipe Lead 88.3 W EPA 7420(1) 09/09/11 10:30 <16.0 16 ug/sq. Ft. 057 PWS-A-02 Wipe Lead <16.0 16 ug/sq. Ft. 09/09/11 10:30 W EPA 7420 (1) PWS-A-03 Wipe Lead 058 ug/sq. Ft. 09/09/11 10:30 W EPA 7420 (1) <16.0 16 059 PWS-B-01 Wipe Lead W EPA 7420 (1) 16 ug/sq. Ft. 09/09/11 10:30 <16.0 060 PWS-B-02 Wipe Lead W EPA 7420 (1) 50.9 16 ug/sq. Ft. 09/09/11 10:30 Wipe Lead 061 PWS-B-03 W EPA 7420 (1) 116 -16 ug/sq. Ft. 09/09/11 10:30 062 PWS-C-01 Wipe Lead W EPA 7420 (1) ug/sq. Ft. 09/09/11 10:30 063 PWS-C-02 Wipe Lead 18.8 16 W EPA 7420(1) 27.6 16 ug/sq. Ft. 09/09/11 10:30 064 PWS-C-03 Wipe Lead 09/09/11 10:30 W EPA 7420 (1) 58.1 16 ug/sq. Ft. Lead 065 PWS-D-01 Wipe W EPA 7420 (1) 16 09/09/11 10:30 19.2 ug/sq. Ft. 066 PWS-D-02 Wipe Lead 16 W EPA 7420(1) ug/sq. Ft. 09/09/11 10:30 Lead 35.5 067 PWS-D-03 Wipe 09/09/11 10:30 W EPA 7420 (1) 160 16 ug/sq. Ft. Lead 068 PWS-E-01 Wipe

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

199570

Date Received:

09/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/9/2011

AlHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.:

N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
			19					
069	PWS-E-02	Wipe	Lead	72.9	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
070	PWS-E-03	Wipe	Lead	1,050	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
071	PWS-F-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
072	PWS-F-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
073	PWS-F-03	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/09/11 10:30	W EPA 7420 (1)
		-						

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test: 9165

Lead

Date:

9/8/2011

Matrix: Wipe

Lab Number: Approved By: 199570

Rebecca Sparks

Date Approved: 9/8/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit		
CCV	4.5	4.8	5.5		
FCV	4.5	4.8	5.5		
ICV	0.8	1	1.2		
RLVS	0.256	0.377	0.384		

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.481	5.034	91.8	5.083	92.7	1.0
MS-W1	0.000	5.481	5.088	92.8	4.919	89.7	3.4

Supplemental Report QAQC Results

QA ID: Test: 9169

Lead

Date:

9/9/2011

Matrix: Wipe

Lab Number:

199570

Approved By:

Rebecca Sparks

Date Approved: 9/9/2011

Notes:

Blank Data:

Type of Blank	Biank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
ccv	4.5	4.9	5.5
FCV	4.5	5.1	5.5
ICV	0.8	0.9	1.2
RLVS	0.256	0.276	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5,427	5.429	100.0	5.339	98.4	1.7
MS-W2	0.000	5.481	4.918	89.7	4.948		0.6
MS-W1	0.000	5.449	5.445	99.9	5.093	93.5	6.7

Authorized Signature:

Rebecca Sparks, Analyst

2033 Heritage Park Drive, Okletnoma City, OK 73120-7502. (800) 822-4650 (405) 765-7272 Fax: (405) 756-2058

www.quantam.com

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The Ross for Lab Uses Des Lab No.

Project Number:

Acet.#:

company Name: Entron Services, Inc.

Project Location: Paukuska, OK

Project Name: Pawhysha Amery

	LEGAL DOCUMENT Please Print Legibly		TURKAROUND TIME	Same Day	X 24 Hour	3-Day	S-day			CONTACT INFORMATION	Marshall	Branscum	Phone: 722-7693	Report Results VA (CHOOSE ONE):	FAX	CounTEM WebSte		
	Sample Rents Codes	A - 808	B - Petrt Chips	C - Surface / Dust Wipes	D - Bulk Missellensous	E - At Campite	F - Other (SPECIFY)											11112
Units Perguenting	nd ton; nd ten W nd to ng th ng th ng th	×														-2	11/24 9.7	1.1
Attechnia	Wdd	X														ー う	SCHLice alow 1124 an	
	E IA to emissiov Ideals elegens	7442 C															15C	
	Sample Description																11. Bunger 9-3-11/11:24-	
	Sample Number	Pw-1-01	1-1-62	-1-03	±0 − J−	S0-1-	90 -1-	10-2-	10-5-01	10-6-	10-5-	10-9- 1		3- 1-02	4- 1-1-03	0-8-1	Mach III. Burger	

Seturday FedEx Shipping - CALL TO SCHEDULE
Use this address for Saturday FedEx only: 4220 N. Senta Fe Ave., Okishoma City, OK 73105-8517
Mark Package 140LD FOR SATURDAY PICKUP

Mevipion: May 2006

2033 Hartage Park Drive, Oktahoma City, OK 73126-7502 (990) 622-1636 (406) 785-7272 Ferc (405) 755-2058

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200

This Back for Late Care Cray Lab No.

were dustalement Appt &

Proper Name: Paulous la Homer V

Project Number:

Units Requirement

Please Print Legibly LEGAL DOCUMENT

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C-Surface / Deat Wi

B - Point Chips

A-805

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Sasapto Creenigidos

Sample Wamber

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10-11-

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0-21-

0-11-

Project Location: Paulhus La, OK

Company Name: Engloom

また

F. Other (SPECIFY)

E-Alr Cassette

D - Pack Misco

CONTACT BIFORMATION	Marshall	Stenseum	Phone: 722-7693	Report Results VIA (CHOOGE ONE):	, w	(Count Winds	Parent.	
								-

IFR-Walls

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10-9/-

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11111	/ (breek)	

-13-02

-B-01

-A-03

-A -02

Saturday Fadex Shipping - CALL TO SCHEDULE. Use fits address for Saturday Fadex only: 4220 N. Sarta Fe Ave., Oldshoms City, OK 73105-8517 Mark Pedage FIOLD FOR SATURDAY PICKUP

Rendstar, May 1900



2033 Heritage Park Drive, Okiahama City, OK 73120-7502 (990) 822-4656 (405) 755-7272 Fac (405) 755-2058

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	P. C.

199570

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Project Menne: Peubusku Horney

And #

Project Location: Paralusta, OK

CORRESPONDENCE ENVIONE

Project Number:

Please Print Legibly LEGAL DOCUMENT CONTACT INFORMATION TURNAROUND THE beport Results VIA (CHOOSE ONE): Mershall Blansum Thomas: 722-1693 MOMENTER WARRIE Same Day 24 Hour 3-Dey 8-day C - Startage / Dust Wights D - Besk fåbssefransous F - Other (SPECSPY) Sample Matrix E - Alr Coonside B - Paint Chips A-84 Ting & British in to the Unite Streptoredand N be / Bo 1/ Ocu 14 344 Midd M. M. Bran 78-11 11:24 ... 14 S. V. Mirier 1462 Sample Description IFR HOOK IFR-WAS Sumple Number B-03 R-04 -8-05 -13-06 0-0 -E-02 10-Q--0-03 20-7--7-03 90-Q--D-02 -D-Q--D-05 -7-0 Pw-

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35

Sebantsy FedEx Shipping - CALL TO SCHEDULE. Use this address for Saburday FedEx ealy: 4220 M. Senis Fe Ave., Cidenams Chy, OK 73165-8517 Mark Peciage WOLD FOR SATURDAY PICKUP

7-7 more

9/8/11

fertation: May 2000



2033 Heritage Park Drive, Oktehoma City, OK 73126-7502 (808) 822-4656 (405) 785-7272 Fax (405) 755-2056

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Page	

175 Ber 18 La Van Cary 199570

Warm quanteman

Project Warnes Pary Austra Armon Y

Project Mumber:

Acct.

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Project Location: Pawhys Ka.

Company Name: Fre(Cor-

Please Print Legibly LEGAL DOCUMENT CONTACT INFORMATION Barseam TURNAROUND THE IOPERT RESULTS VIA FOHOOSE CHIEF. Mc15/4/ ALGUMETTEM Webstra Statute Day X 24 Hour 3-Cay C - Startace / Dust Wipes D - Burk hitterefamous F-Ober (SPECIFY) strate Sharete E-Air Casestle B - Peint Chips A - 808 ונום ן סניו. M / OF M Unite Requestry 3 36/30) / Dia Dig / Dia N WA Mdd 95 24 144m2 C Storage Room-Walls Sample Description IFR-Ceilm IFR- How Sample Rencher PW-E-03 -4-62 P 0-3--A -03 -E-05 18-02 -F-02 Pws-A-0 -E-06 F-01 -B-01 -F-04 -F-03 -F-05 -F-06

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B

60.

Atrice. aplu 11:24 9.7 Madell Brus 3.8-1 11:24 15

Saturday FodEx Shipping - CALL TO SCHEDHLE Use this address for Saturday FodEx only: 4220 N. Santa Fe Ave., Cidahoms City, CK 72105-6517 Mark Pectage 'HOLD FOR SATURDAY PICTOLP"

3nd



2033 Hartage Park Drive, Oktahoma City, OK 73129-7502 (968) 522-1650 (405) 785-7272 Fer: (405) 755-2056

Y	

THE EASTER LAND COM Lab No.

Project Name: Paulisha Housey www.quarthem.oom

Project Number: United Fundamental

Acres #

X

Preshista,

Project Location;

Company Name: Enercon

Please Print Legibly LEGAL DOCUMENT

Sample Shatrice

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Mdd

14%×2C

Stravela Walls

Pws- B-03

70-7--6-03

-D-02 ~D-03 10-7--E-02

35

100-

-12-0

Sample Description

Sample Number

B - Faint Crips		TURNAROUND TIME
C - Surface / Dust Wipes	eg eg	Statute Day
D - Bulk lätecetensous	7 24 Hour	Hour
E - Afr Cassatie	3	3-Dity
F - Other (SPECIFY)	S-char	, in

A-808

CONTACT INFORMATION MARKE MASSA // Branse Report Results VA (CHOOSE ONE): FAX: A CLIENTER Websits E-Mark
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Strace Ren Ceiling

-5-01 - 5-02 F-03

-2-03

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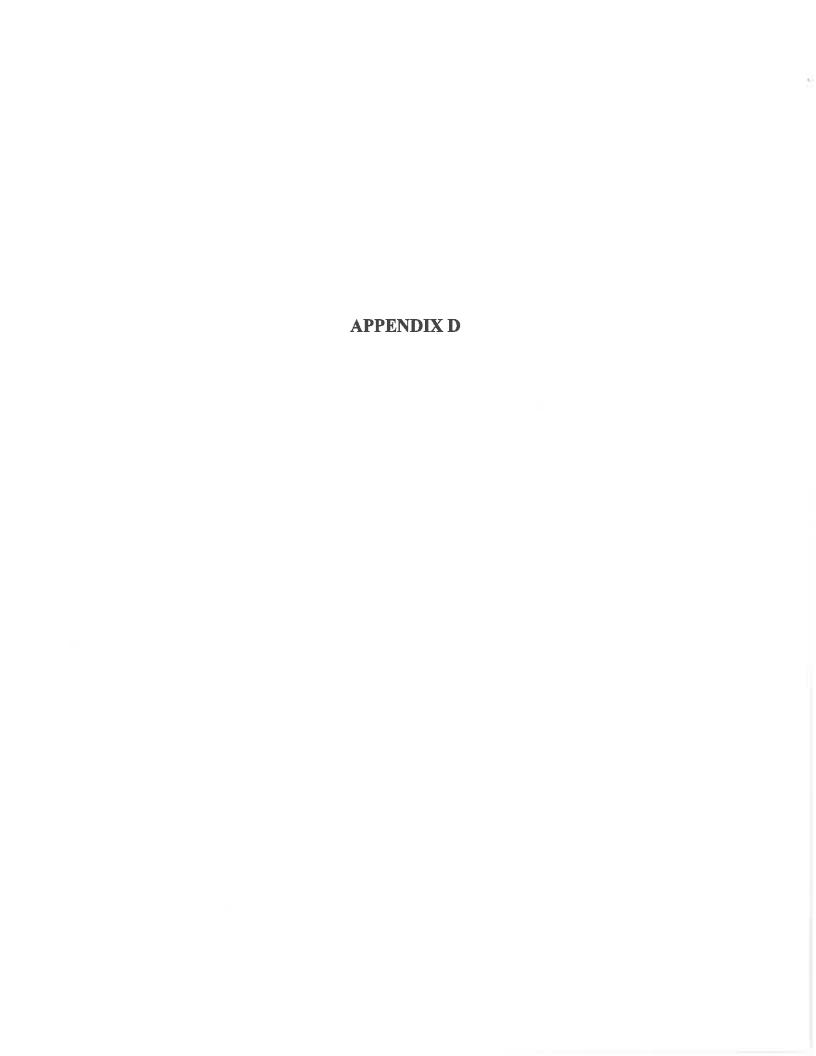
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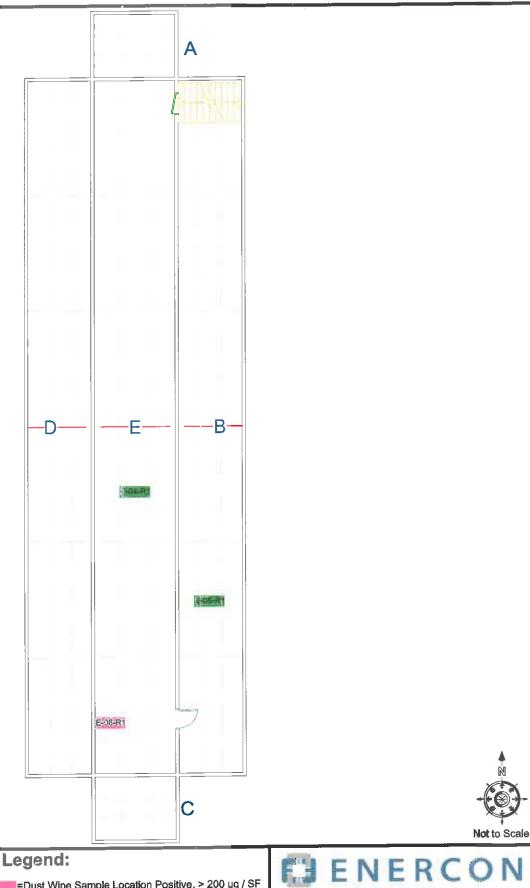
ندر و.

Storage Ran Floor

Minice alote 11.24 9-7 MB W. Bruco 9-8-11

Salvariny Fordex Shipping - CALL TO SCHEDALE: Use this address for Salvarilay Fordex only. 4220 N. Sarine Fe Ave., Oklahome Chy, OK 73465-6517 Mark Pedroge FROLD FOR SATURDAY PICKUP*





Note: A,B,C, and D= Walls E = Floor F = Ceiling

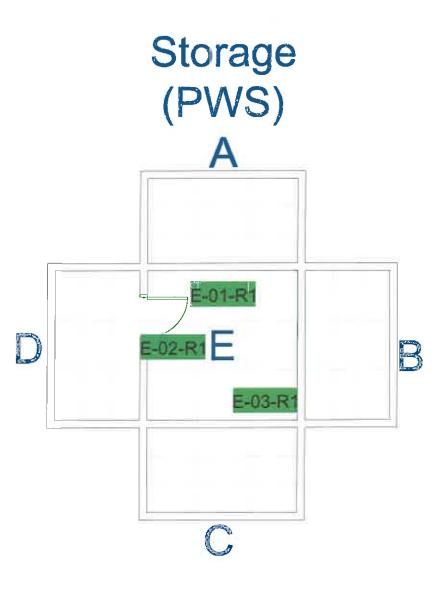
Oklahoma Department of **Environmental Quality** Pawhuska Armory 823 E. 8th Street.

Pawhuska, Ok.

=Dust Wipe Sample Location Positive, > 200 ug / SF =Dust Wipe Sample Location Negative, < 200 ug / SF Note: Samples < 200ug / SF on previous round not shown.



Lead Wipe Re-Sample IFR (Round 1) 9-21-11



Note:

A,B,C, and D= Walls

E = Floor

F = Ceiling



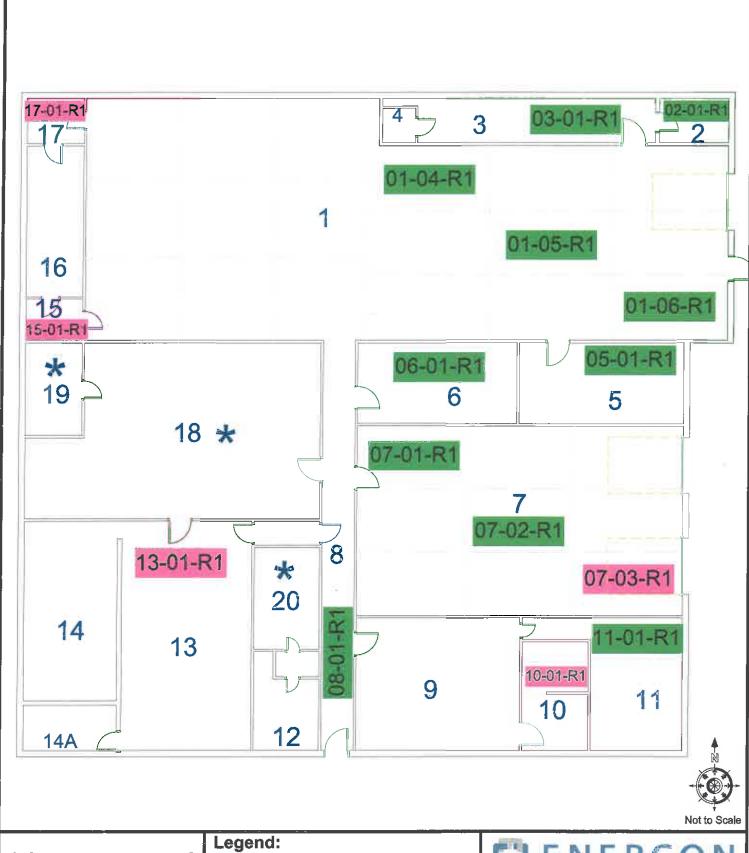
Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

Dust Wipe Sample Location Positive, > 200 ug / SF
 Dust Wipe Sample Location Negative, < 200 ug / SF
 Note: Samples < 200 ug / SF on previous round not shown.



Lead Wipe Re-Sample
IFR-Storage (Round 1) 9-21-11



Oklahoma Department of **Environmental Quality** Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

=Dust Wipe Sample Location Positive, > 40 ug / SF ■ =Dust Wipe Sample Location Negative, < 40 ug / SF

Note: Samples < 40ug / SF on previous round not shown.



ENERCON

Lead Wipe Re-Sample Locations Main Floor (Round1) 9-21-11



Environmental Chemistry Analysis Report

QuanTEM Set 1D:

200040

Date Received:

09/22/11

Received By:

CeCelia Van Eck

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/23/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.:

ENMISC2447

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	PW-01-04- R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
002	PW-01-05- R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
003	PW-01-06- R1	Wipe	Lead	21.1	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
004	PW-02-01- R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
005	PW-03-01- R1	Wipe	Lead	<16.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
006	PW-05-01- R1	Wipe	Lead	31.1	16	ug/sq. Ft.	.09/23/11 13:00	W EPA 7420 (1)
007	PW-06-01- R1	Wipė	Lead	34.2	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
008	PW-07-01- R1	Wipe	Lead	23.1	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
009	PW-07-02- R1	Wipe	Lead	18.6	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

200040

Date Received:

09/22/11

Received By:

CeCelia Van Eck

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/23/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: I

ENMISC2447

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
010	PW-07-03- R1	Wipe	Lead	41.7	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
011	PW-08-01- R1	Wipe	Lead	30.7	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
012	PW-10-01- R1	Wipe	Lead	84.8	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
013	PW-11-01- R1	Wipe	Lead	32.9	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
014	PW-13-01- R1	Wipe	Lead	138	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
015	PW-15-01- R1	Wipe	Lead	54.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
016	PW-17-01- R1	Wipe	Lead	45.7	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
017	PW-E-04-R1	Wipe	Lead	78.0	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
018	PW-E-05-R1	Wipe	Lead	42.8	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
019	PW-E-06-R1	Wipe	Lead	1,070	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
020	PWS-E-01- R1	Wipe	Lead	58.8	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

OuanTEM Set ID:

200040

Date Received:

09/22/11

Received By:

CeCelia Van Eck

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

9/23/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: ENMISC2447

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
021	PWS-E-02- R1	Wipe	Lead	20.4	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)
022	PWS-E-03- R1	Wipe	Lead	34.2	16	ug/sq. Ft.	09/23/11 13:00	W EPA 7420 (1)

Authorized Signature:_

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test: 9225

Lead

Date:

9/23/2011

Matrix: Wipe

Lab Number: Approved By: 200040

Rebecca Sparks

Date Approved: 9/23/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit	
CCV	4.5	5.2	5.5	
FCV	4.5	5.2	5.5	
ICV	0.8	1.1	1,2	
RLVS	0.256	0.341	0.384	

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Resuit + Spike	% Dup. Recovery	% Spike RPD
.MS-W1	0.000	5.460	5.477	100.3	5.515	101.0	0.7
MS-W2	0.000	5.481	5.732	104.6	5.724	104.4	0.1
MS-W3	0.000	5.449	5.368	98.5	5.841	107.2	8.4

Authorized Signature:_

Rebecca Sparks, Analyst



2033 Hartinge Park Drive, Oklahoma City, OK 73120-7602 (880) 822-4656 (406) 755-7272 Far: (405) 755-2086 Water Spiratelenn com

7	1 8	
	Page	

Lab No.

Project Number: E. NMS. 2447

ACCE SE

COMPANY NAMES ENCOSA SOLVICES, TAK.

Project Location: Nace Aus (La. OK

200090 THE BOX SPILES USE SHE Project NATHE: PALLINUS (Ca. HIMOGIN)

Please Print Legibly LEGAL DOCUMENT CONTACT IMPORMATION Banscum TURKAROUND TIME Apport Results VIA (CHOOSE CAR): 722-7693 Marchall QuanTER WORSH Same Dev 1 124 Hour 300 A Charles C - Surface / Dust Wilpes D - Bulk affeoreforspous F-Other (SPECIFY) Berryse Metrix E - Air Cassettle B - Parist Chips A-80 24 / 2011 14 20 / 30 16 / 30 / 30 16 / 30 / 30 # #M Phobal 日から Sample Description Heal -01-05-27 -01-06-RI PW-01-04-R1 -02-01-RI -03-01-R -05-01-R 12-10-6 -07-03-R -07-02-21 -06-01-R 2-10-80 -11-01-R -10-01-R -13-01-6 7-10-51-Seniple Muncher

> -21 1

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12-6 01.6 120 Set 4/2/11 11. 10% Sheward 9-22-11/090 11.

Reharday FedEx Shipping - CALL TO SCHEMLE. Use this address for Salzarday FudEx only: 4220 N. Senta Fe Ave., Okishoms City, CK 73105-6517 Mark Package HOLD FOR SATURDAY PACAGIP

2033 Heritage Park Drive, Oktehoma City, OK 73120-7502 (860) 822-4656 (405) 765-7272 Fac (405) 756-2058 mooruspuud akan oom

Lab No. 0700040 THE BAK GOLDEN CAME CAME

Pawhisha Amory Project Name:

Acct # Company Hame: English Schulus, Inc.

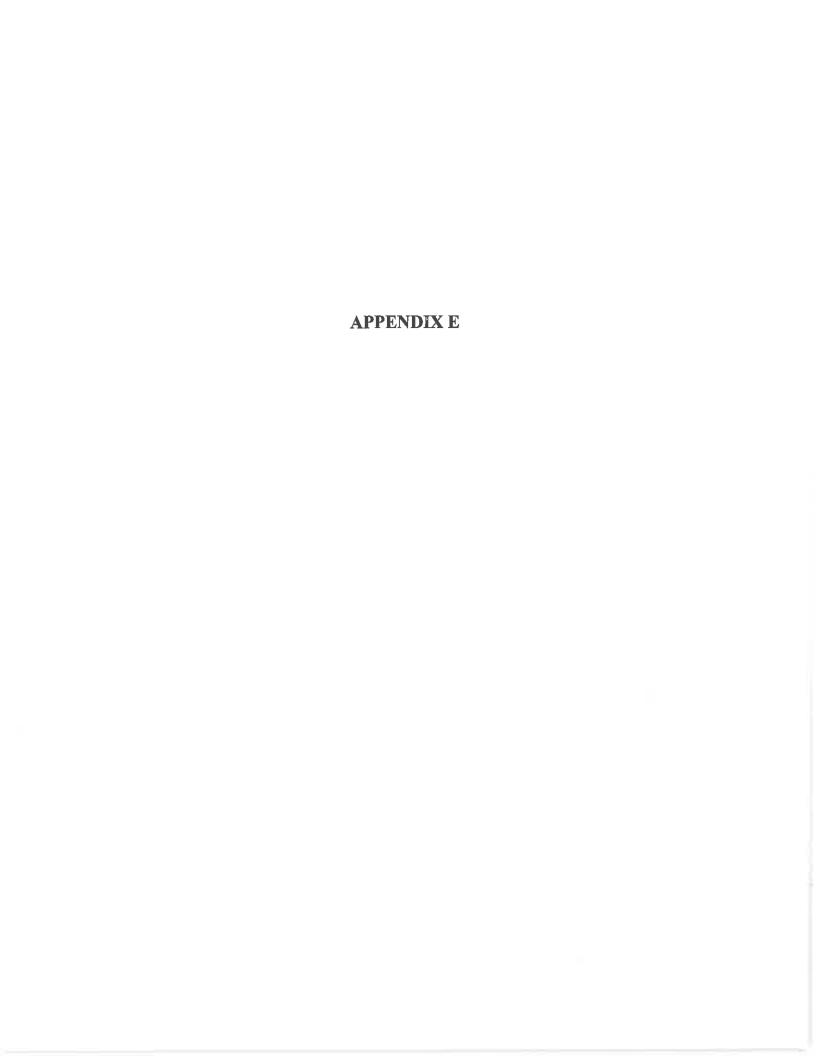
Project Lacation:

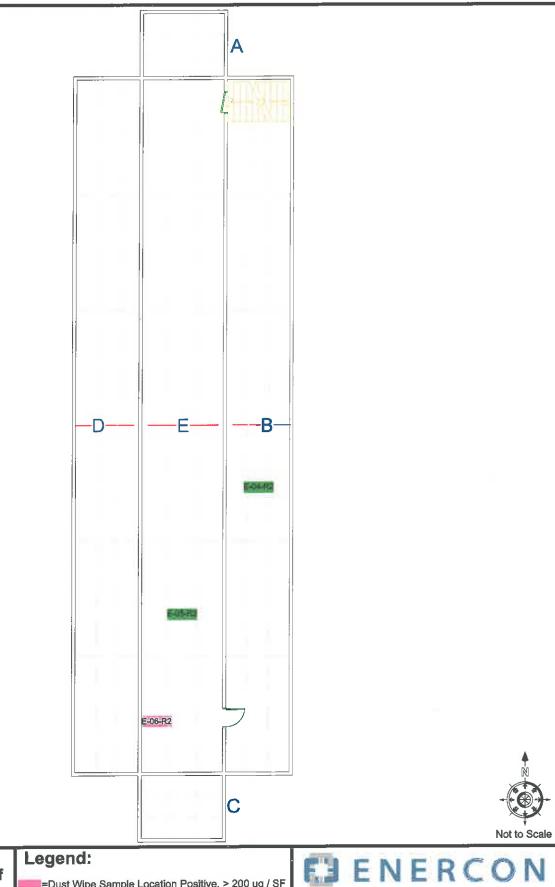
CNMTSC2447

Project Number:

	LEGAL DOCUMENT Please Print Legibly		TURNAROUND TIME	Starrio Day	24 Hour	3-Day	A STATE OF THE STA			CONTACT INFORMATION	Marky	Buccan	Mars. 722-7893	Repart Results VIA (CHOOSE ONE):	Ž.	Charities Website
	Semple Metric Codes	A - Sol	B - Patht Chips	C - Surface / Dust Wipes	D - But Missellansous	E-Alr Cassatio	F - Other (SPECIFY)									
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90)	Statute Description	How White	IFR-Floor-SIK		<i>→</i>	Stone Lastel Hoor		<i>→</i>	•							
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Saturday Feeter Shipping - CALL TO SCHEDULE. Use this address for Saturday Fedicit only: 4220 N. Santa Fe Ave., Oldshams City, OK 73105-8517 Mark Pedange 1101.0 FOR SATURDAY PICKLIP





Oklahoma Department of **Environmental Quality** Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Note: A,B,C, and D= Walls

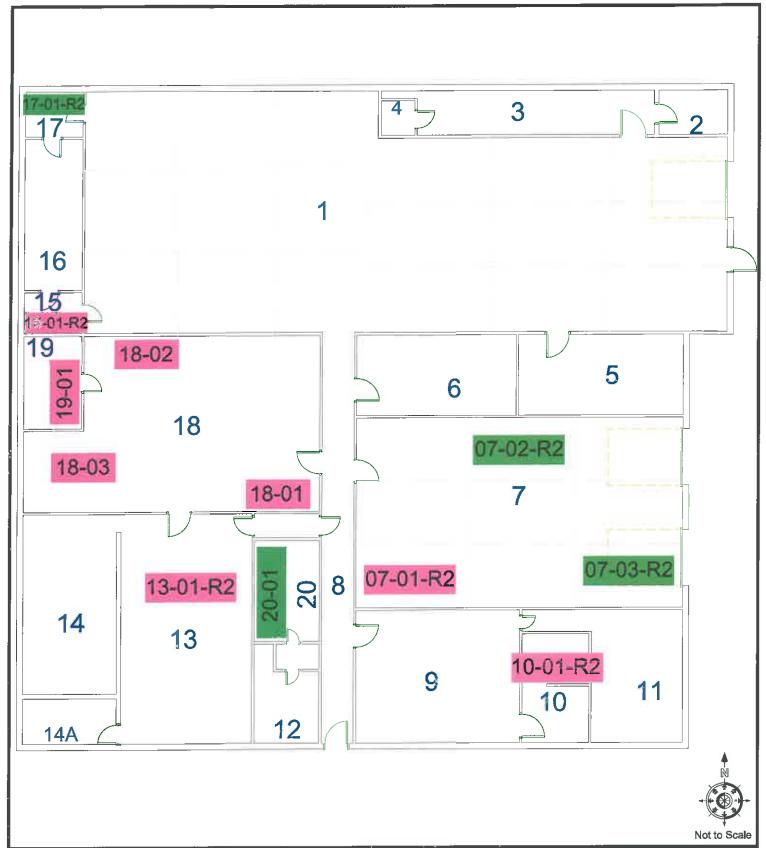
E = Floor F = Ceiling

■=Dust Wipe Sample Location Positive, > 200 ug / SF ■=Dust Wipe Sample Location Negative,< 200 ug / SF

Note: Samples < 200 ug / SF on previous round not shown



Lead Wipe Re-Sample IFR (Round 2) 10-11-11



Oklahoma Department of **Environmental Quality** Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

=Dust Wipe Sample Location Positive, > 40 ug / SF =Dust Wipe Sample Location Negative,< 40 ug / SF

Note: Samples < 40ug / SF on previous round not shown



ENERCON

Lead Wipe Re-Sample Locations Main Floor (Round 2) 10-11-11



Environmental Chemistry Analysis Report

QuanTEM Set ID:

200705

Date Received:

10/12/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AlHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM						Reporting		Date/Time	
ID	Client ID	Matrix	Parameter		Results	Limits	Units	Analyzed	Method
001	PW-07-01- R2	Wipe	Lead		52.1	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
002	PW-07-02- R2	Wipe	Lead		34,8	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
003	PW-07-03- R2	Wipe	Lead	2	34.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
004	PW-10-01- R2	Wipe	Lead		52.5	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
005	PW-13-01- R2	Wipe	Lead		40.1	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
006	PW-15-01- R2	Wipe	Lead		46.2	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
007	PW-17-01- R2	Wipe	Lead		21.5	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
800	PW-18-01	Wipe	Lead		77.8	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420(1)
009	PW-18-02	Wipe	Lead		228	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
010	PW-18-03	Wipe	Lead		72.6	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
011	PW-19-01	Wipe	Lead		159	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
012	PW-20-01	Wipe	Lead		31.7	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

OuanTEM Set ID:

200705

Date Received:

10/12/11

Received By:

Barbara Holder

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

10/13/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	n	Results	Reporting Limits	Units	Date/Time Analyzed	Method
013	PW-E-04-R2	Wipe	Lead		71.8	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
014	PW-E-05-R2	Wipe	Lead		126	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)
015	PW-E-06-R2	Wipe	Lead		513	16	ug/sq. Ft.	10/13/11 14:00	W EPA 7420 (1)

Authorized Signature:

Rehacos Sparks Analyst

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified .

Supplemental Report QAQC Results

QA ID:

9278

Test:

Lead

Date:

10/13/2011

Matrix: Wipe

Lab Number:

200705

Approved By: Rebecca Sparks

Date Approved: 10/13/2011

Notes:

Blank Data:

Type of Blank	Blank Value
ICB	0
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	4.84	5.5
ICV	0.8	1.1	1.2
RLVS	0.256	0.34	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD	
MS-W3	0.000	5.449	6.015	110.4	6.013	110.4	0.0	
MS-W2	0.000	5.525	6.085	110.1	6.145	111.2	1.0	
MS-WI	0.000	5.460	6.128	112.2	6.027	110.4	1.7	

Authorized Signature:

ا ا

Rebecca Sparks, Analyst

2033 Herhage Park Drive, Oktahoma City, OK 73120-7502 (900) 822-4659 (405) 735-7272 Fext (405) 755-2059

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Dag.

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> Project Name: MICO CHICACHOLICATION COMM

Acet#.

COSTIDATE ENGLON SAVILES, IAC

Project Location:

Pushviska Armary

Project Number:

Units Requested

Austholis

Strough Description

Sample Number

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-15-01-RZ 17-01-RZ

-18-02 -12-03

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PW-07-01-R2

-02-RZ -03-RZ

ROUND TIME

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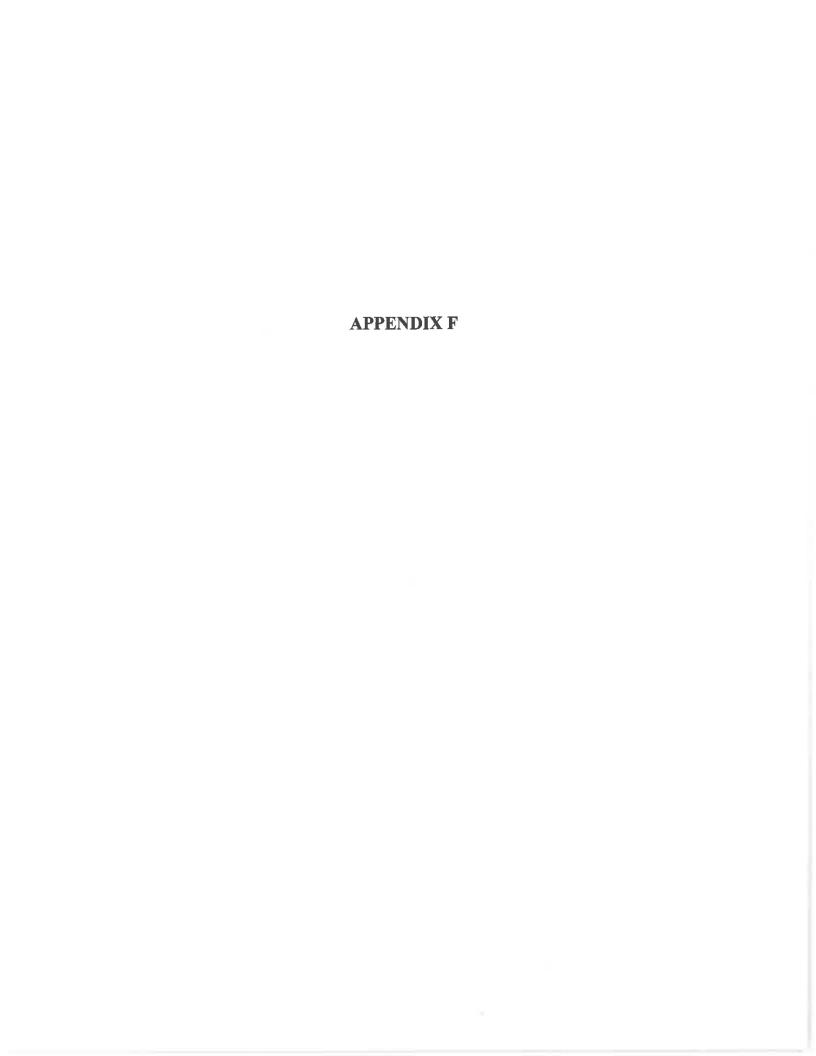
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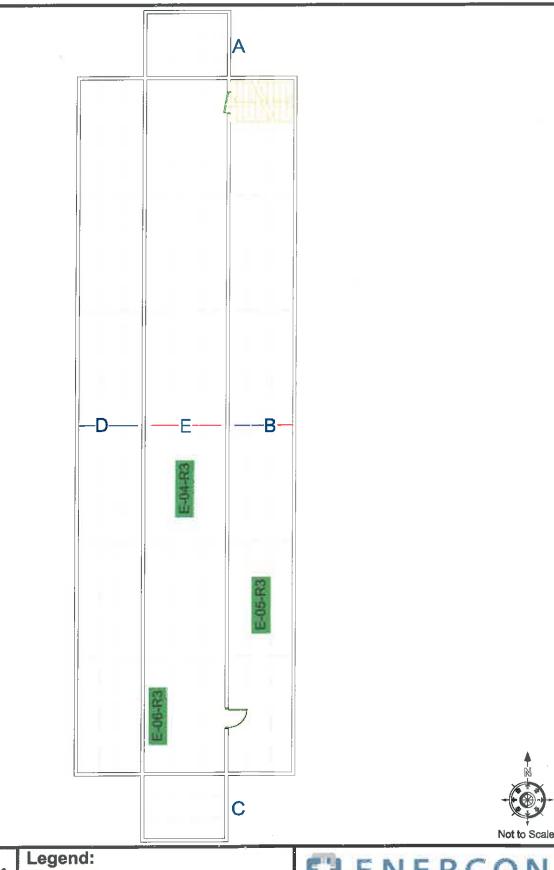
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Saturday FedEx Shipping - CALL, TO SCHEDNILE Use this actitoss for Saturday FedEx only: 4220 N. Serta Fe Ave., Okishoms Cik., OK 73405-8617 Mert: Pediage HOLD FOR SATURDAY PICKUP





Oklahoma Department of **Environmental Quality** Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Note:

F = Ceiling

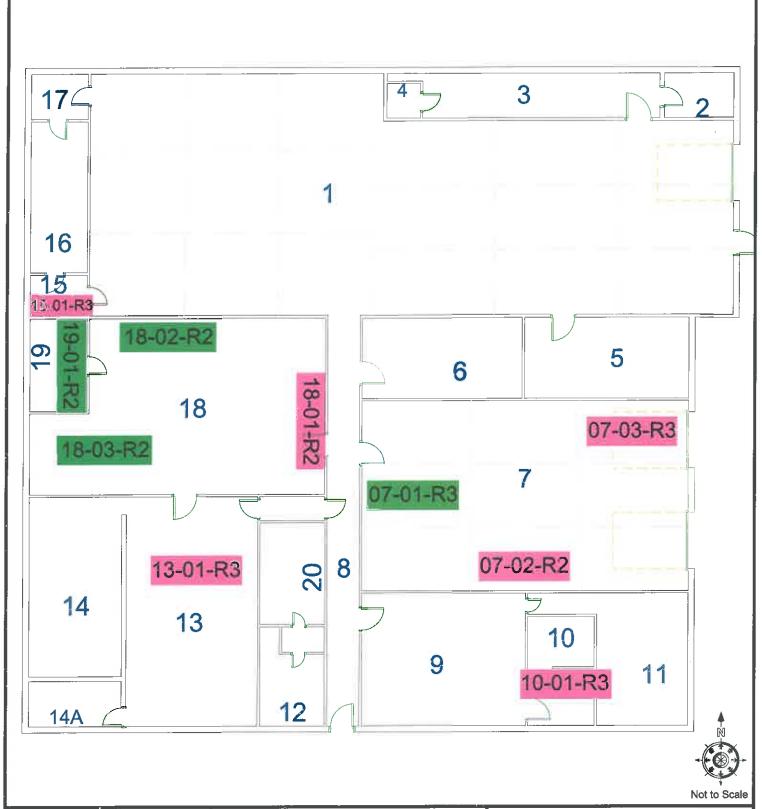
A,B,C, and D= Walls E = Floor

■=Dust Wipe Sample Location Positive, > 200 ug / SF ■=Dust Wipe Sample Location Negative,< 200 ug / SF

Note: Samples < 200 ug / SF on previous round not shown

ENERCON

Lead Wipe Re-Sample IFR (Round 3) 11-16-11



Oklahoma Department of **Environmental Quality Pawhuska Armory** 823 E. 8th Street. Pawhuska, Ok.

Legend:

=Dust Wipe Sample Location Positive, > 40 ug / SF =Dust Wipe Sample Location Negative,< 40 ug / SF

Note: Samples < 40ug / SF on previous round not shown



EJENERCON

Lead Wipe Re-Sample Locations Main Floor (Round 3) 11-16-11



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201808

Date Received:

11/17/11

Received By:

Leigh Armstrong

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

11/18/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska Armory, 823 E 8th St

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	PW-E-06-R3	Wipe	Lead	51.1	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
002	PW-E-05-R3	Wipe	Lead	40.0	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
003	PW-E-04-R3	Wipe	Lead	175	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
004	PW-7-01-R3	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
005	PW-7-02-R3	Wipe	Lead	82.6	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
006	PW-7-03-R3	Wipe	Lead	89.9	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
007	PW-10-01- R3	Wipe	Lead	86.4	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
800	PW-13-01- R3	Wipe	Lead	251	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
009	PW-15-01- R3	Wipe	Lead	175	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420(1)
010	PW-18-01- R2	Wipe	Lead	40.2	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
011	PW-18-02- R2	Wipe	Lead	29.4	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)
012	PW-18-03- R2	Wipe	Lead	30.5	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201808

Date Received:

11/17/11

Received By:

Leigh Armstrong

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

11/18/2011

Acct. No.:

Client:

A845

Project:

Pawhuska Armory

Enercon Services, Inc.

6525 N. Meridian, Suite 400 Oklahoma City, OK 73116

Location:

Pawhuska Armory, 823 E 8th St

Project No.:

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
013	PW-19-01-	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/17/11 15:00	W EPA 7420 (1)

Authorized Signature:

Ebrua span

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test: 9374

Lead

Date:

11/17/2011

Matrix: Wipe

Lab Number: Approved By: 201808

Rebecca Sparks

Date Approved: 11/17/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	
ICB	, O
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.6	5.5
FCV	4.5	4.6	5.5
ICV	0.8	1.2	1.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.470	5.007	91.5	5.005	91.5	0.1

Authorized Signature:

Rebecca Sparks, Analyst



2033 Heritage Perk Drive, Oklahoma Cily, OK 73120-7502 (800) 822-1850 (405) 755-7272 Fax (405) 755-2058 www.quantern.com

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This Box, for Lat Use Only Lab No.

Project Name: Taulhuskaf

Acct.#:

Company Name: Laste on Securices Lac

E8715/

823

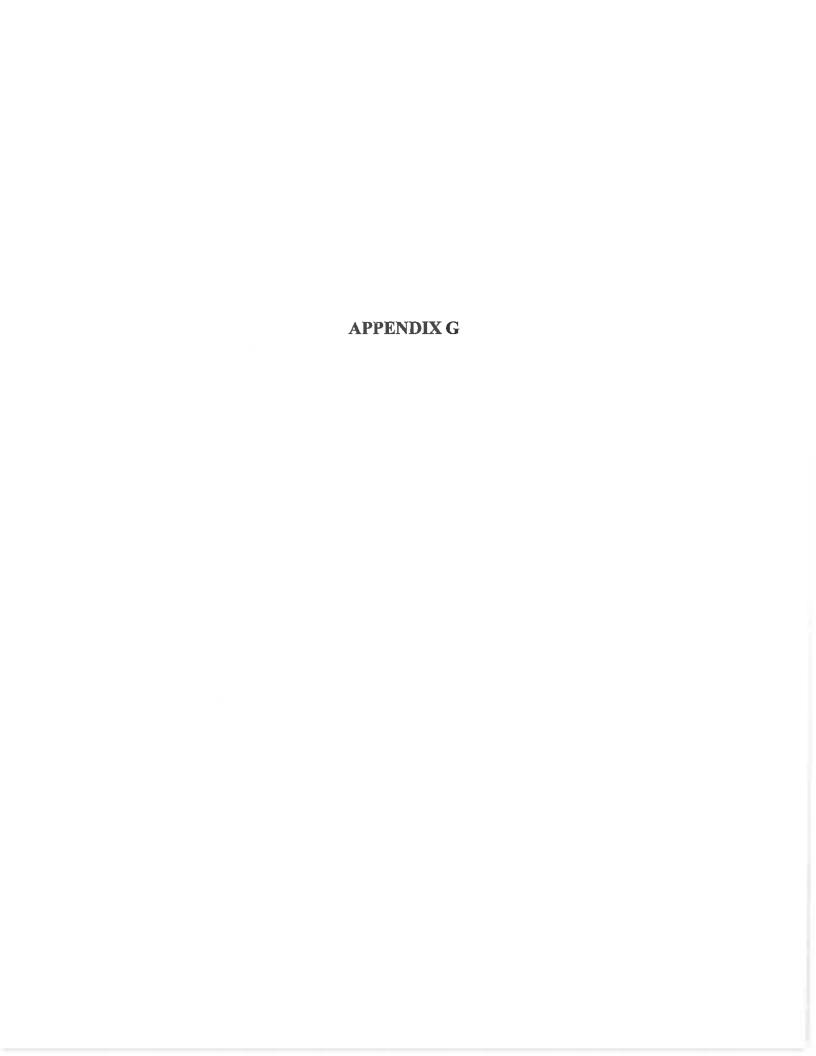
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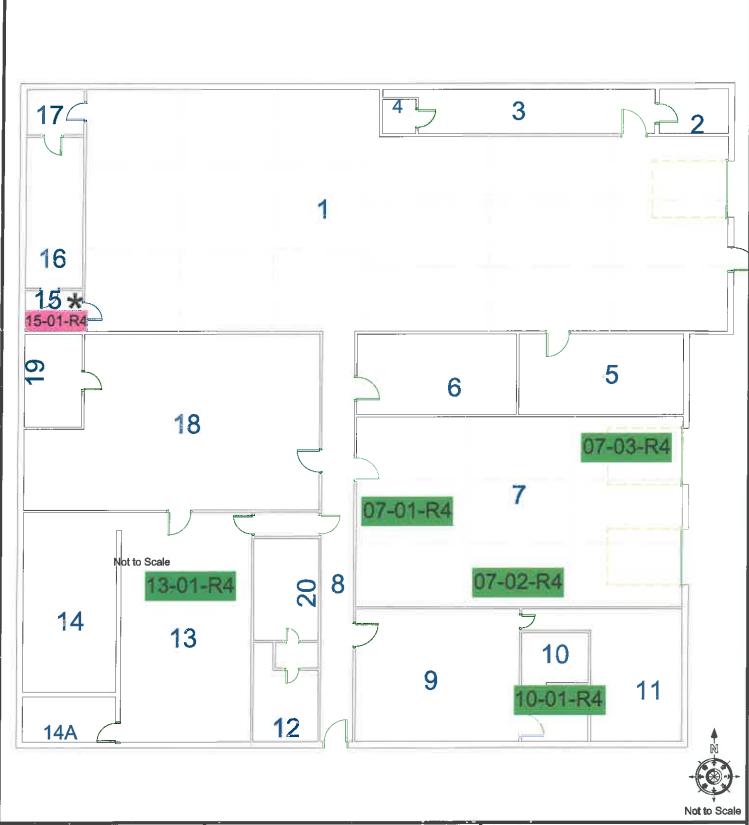
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02.83										E - Alt Cassette	₫
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24-15-01-83			±.					-+			
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((2))		-						-			FAX
								\dashv			Cuant Ess wabsite
Total Sales		(

Saturday FedEx Shipping - CALL, TO SCHEDULE. Use Blis address for Seturday FedEx only: 4220 N. Santa Fe Ave., Oklahoma Cily, OK 73105-6517 Mark Package HOLD FOR SATURDAY PICKUP





Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

=Dust Wipe Sample Location Positive, > 40 ug / SF =Dust Wipe Sample Location Negative,< 40 ug / SF

=Epoxy coating applied to floor-no resampling Note: Samples < 40ug / SF on previous round not shown



EJENERCON

Lead Wipe Re-Sample, Post sealant Locations Main Floor (Round 4) 12-9-11



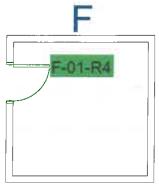
Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

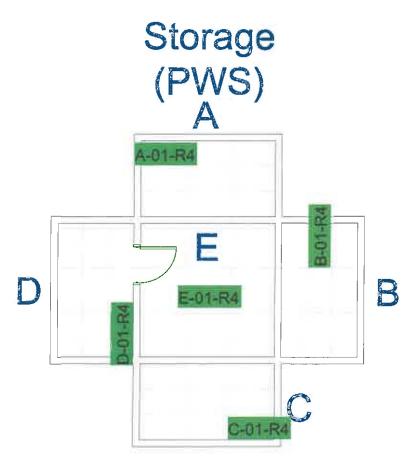
=Dust Wipe Sample Location Positive, > 40 ug / SF

ENERCON

Lead Wipe Re-Sample, Post sealant Locations IFR (Round 4) 12-9-11

Storage Ceiling (PWS)







Note:
A,B,C, and D= Walls
E = Floor
F = Ceiling

Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

=Dust Wipe Sample Location Positive, > 40 ug / SF =Dust Wipe Sample Location Negative, < 40 ug / SF

EJENERCON

Lead Wipe Re-Sample, Post sealant Locations Storage RM (Round 4) 12-9-11



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

202449

Date Received:

12/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

12/12/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM					Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
								6
001	PW-07-01- R4	Wipe	Lead	31.3	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
002	PW-07-02- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
003	PW-07-03- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
004	PW-10-01- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
005	PW-13-01- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
006	PW-15-01- R4	Wipe	Lead	111	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
007	PW-A-01-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
800	PW-A-02-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
009	PW-B-01-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
010	PW-B-02-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
011	PW-B-03-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
012	PW-B-04-R4	Wipe	Lead	<16.0	16	ug/sq. Ft,	12/12/11 15:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

202449

Date Received:

12/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

12/12/2011

e or response

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acct. No.:

A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

				Reporting		Date/Time	
Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
						•	
PW-C-01-R4	Wipe	Lead	101	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-C-02-R4	Wipe	Lead	100	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-D-01-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-D-02-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-D-03-R4	Wipe	Lead	56.3	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-D-04-R4	Wipe	Lead	28.8	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-E-01-R4	Wipe	Lead	<16.0	16		12/12/11 15:30	W EPA 7420 (1)
PW-E-02-R4	Wipe	Lead	<16.0	16		12/12/11 15:30	W EPA 7420 (1)
PW-E-03-R4	Wipe	Lead	<16.0	16		12/12/11 15:30	W EPA 7420 (1)
PW-E-04-R4	Wipe	Lead	16.0	16		12/12/11 15:30	W EPA 7420 (1)
PW-F-01-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-F-02-R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PW-F-03-R4	Wipe	Lead	<16.0	16		12/12/11 15:30	W EPA 7420 (1)
PW-F-04-R4	Wipe	Lead	<16.0	16		12/12/11 15:30	W EPA 7420 (1)
PWS-A-01- R4	Wipe	Lead	16.4	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
PWS-B-01- R4	Wipe	Lead	<16.0	1 6	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
	PW-C-01-R4 PW-C-02-R4 PW-D-01-R4 PW-D-03-R4 PW-D-04-R4 PW-E-01-R4 PW-E-03-R4 PW-E-04-R4 PW-F-01-R4 PW-F-03-R4 PW-F-03-R4 PW-F-03-R4 PW-F-03-R4 PW-F-03-R4 PW-F-04-R4 PW-F-04-R4 PWS-B-01-R4	PW-C-01-R4 Wipe PW-C-02-R4 Wipe PW-D-01-R4 Wipe PW-D-03-R4 Wipe PW-D-04-R4 Wipe PW-E-01-R4 Wipe PW-E-01-R4 Wipe PW-E-03-R4 Wipe PW-E-03-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe PW-F-01-R4 Wipe	PW-C-01-R4 Wipe Lead PW-C-02-R4 Wipe Lead PW-D-01-R4 Wipe Lead PW-D-02-R4 Wipe Lead PW-D-03-R4 Wipe Lead PW-D-04-R4 Wipe Lead PW-E-01-R4 Wipe Lead PW-E-01-R4 Wipe Lead PW-E-03-R4 Wipe Lead PW-E-03-R4 Wipe Lead PW-F-01-R4 Wipe Lead PW-F-01-R4 Wipe Lead PW-F-01-R4 Wipe Lead PW-F-01-R4 Wipe Lead PW-F-03-R4 Wipe Lead PW-F-03-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead PW-F-04-R4 Wipe Lead	PW-C-01-R4 Wipe Lead 100 PW-D-01-R4 Wipe Lead 100 PW-D-01-R4 Wipe Lead <16.0 PW-D-02-R4 Wipe Lead 56.3 PW-D-03-R4 Wipe Lead 28.8 PW-D-04-R4 Wipe Lead 28.8 PW-E-01-R4 Wipe Lead <16.0 PW-E-02-R4 Wipe Lead <16.0 PW-E-03-R4 Wipe Lead 16.0 PW-E-03-R4 Wipe Lead <16.0 PW-E-04-R4 Wipe Lead 16.0 PW-F-01-R4 Wipe Lead 16.0 PW-F-01-R4 Wipe Lead <16.0 PW-F-01-R4 Wipe Lead <16.0 PW-F-02-R4 Wipe Lead <16.0 PW-F-03-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PW-F-04-R4 Wipe Lead <16.0 PWS-B-01- Wipe Lead <16.0	PW-C-01-R4 Wipe Lead 100 16 PW-C-02-R4 Wipe Lead 100 16 PW-D-01-R4 Wipe Lead <16.0 16 PW-D-02-R4 Wipe Lead <16.0 16 PW-D-03-R4 Wipe Lead 56.3 16 PW-D-04-R4 Wipe Lead 28.8 16 PW-E-01-R4 Wipe Lead <16.0 16 PW-E-01-R4 Wipe Lead <16.0 16 PW-E-02-R4 Wipe Lead <16.0 16 PW-E-03-R4 Wipe Lead <16.0 16 PW-E-04-R4 Wipe Lead <16.0 16 PW-F-01-R4 Wipe Lead <16.0 16 PW-F-01-R4 Wipe Lead <16.0 16 PW-F-01-R4 Wipe Lead <16.0 16 PW-F-01-R4 Wipe Lead <16.0 16 PW-F-02-R4 Wipe Lead <16.0 16 PW-F-03-R4 Wipe Lead <16.0 16 PW-F-03-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16 PW-F-04-R4 Wipe Lead <16.0 16	Client ID Matrix Parameter Results Limits Units PW-C-01-R4 Wipe Lead 101 16 ug/sq. Ft. PW-D-01-R4 Wipe Lead 16.0 16 ug/sq. Ft. PW-D-02-R4 Wipe Lead <16.0	Client ID Matrix Parameter Results Limits Units Analyzed PW-C-01-R4 Wipe Lead 101 16 ug/sq. Ft. 12/12/11 15:30 PW-C-02-R4 Wipe Lead 100 16 ug/sq. Ft. 12/12/11 15:30 PW-D-01-R4 Wipe Lead <16.0

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

202449

Date Received:

12/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

12/12/2011

AIHA ID: 101352

Client:

Enercon Services, Inc.

6525 N. Meridian, Suite 400

Oklahoma City, OK 73116

Acet. No.: A845

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
029	PWS-C-01- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
030	PWS-D-01- R4	Wipe	Lead	22.4	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
031	PWS-E-01- R4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)
032	PWS-F-01-R	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/12/11 15:30	W EPA 7420 (1)

Authorized Signature:

Rehecca Sparks Apalyet

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID:

9450

Test: Lead Date:

12/12/2011

Matrix: Wipe Lab Number:

202449

Approved By: Date Approved: 12/12/2011

Rebecca Sparks

Notes:

Blank Data:

Type of Blank	Blank Value
ICB	0
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.3	5.5
FCV	4.5	5.4	5.5
ICV	0.8	1.1	1.2

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5.460	6.195	113.5	5.846	107.1	5.8
MS-W2	0.000	5.297	5.367	101.3	5,361	101.2	
MS-W1	0.000	5.286	5.618	106.3	5.548	105.0	

Authorized Signature:

Rebecca Sparks, Analyst

Page 1 of 1

LABORATORIES www.QuanTEM.com

LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

Page 1 of

Reject For Lab Use Only Lab No.

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Report Results (12 one box) QuanTEM Website Other_

DATE & TIME 1219Li - Project Information Project Location: Project Name: Project ID: Date 722-7693 DATE & TIME Cell Phone: Phone E-mail: Contact Information Company: Envius, Inc CONTACT: Mars Lell Sonsein RELINQUISHED BY Name Sampled By: Account #:

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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE . Use this address for Saturday Delivery only: 4220 N. Santa Fa Ave., Oklahoma City, OK 73105-8517 6 Mark Package "Hold for Saturday Pickup"

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LEAD CHAIN OF CUSTODY

Page X of 3

For Labs Use Only

Lab No.

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Accept

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE . Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 . Mark Package "Hold for Saturday Pickup"

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LEAD CHAIN OF CUSTODY

Page X of S

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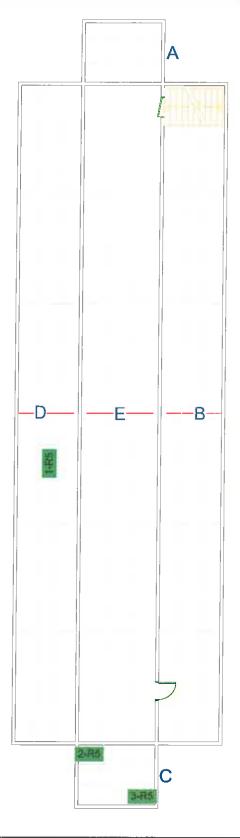
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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pekup"

APPENDIX H



Note:

A,B,C, and D= Walfs

E = Floor F = Ceiling



Not to Scale

Oklahoma Department of Environmental Quality Pawhuska Armory 823 E. 8th Street. Pawhuska, Ok.

Legend:

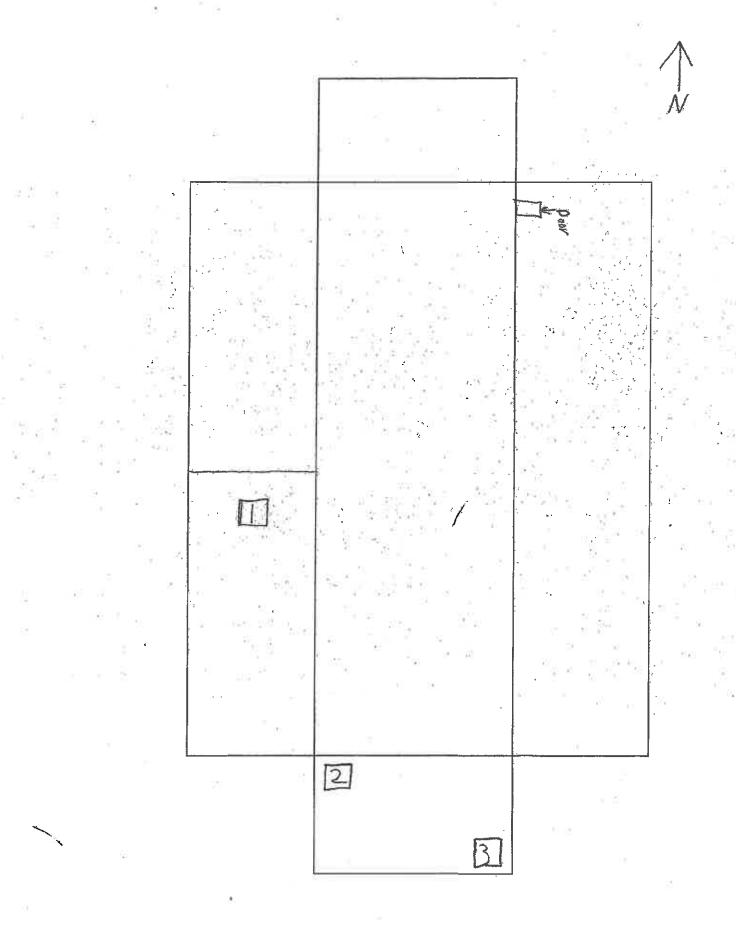
=Dust Wipe Sample Location Positive, > 40 ug / SF

Note: Samples < 40ug / SF on previous round not shown

F.3

ENERCON

Lead Wipe Re-Sample, Post sealant Locations IFR/Storage RM (Round 5) 12-20-11





DEC 22 2011

2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-7272 / Fax

Environmental Chemistry Analysis Report

QuanTEM Set ID:

202767

Date Received:

12/20/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

12/20/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

B486

Project:

Pawhuska Armory

Location:

Pawhuska, OK

Project No.: N/A

QuanTÉM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/20/11 16:15	W EPA 7420 (1)
002	2	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/20/11 16:15	W EPA 7420 (1)
003	3	Wipe	Lead [*]	<16.0	16	ug/sq. Ft.	12/20/11 16:15	W EPA 7420 (1)

Authorized Signature:_

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test:

9474

Lead

Date:

12/20/2011

Wipe Matrix:

Lab Number:

202767

Approved By:

Benton Miller

Date Approved: 12/20/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Öbtained	High Limit		
FCV	4.5	5.3	5.5		
ICV	0.8	1	1.2		

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000		5.682	104.1	5.897	108.0	3.7

Authorized Signature:

Benton Miller, Analyst

	· · · · · · · · · · · · · · · · · · ·
LABORATORIE	www.QuanTEM.com

LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Page 1 of Lab No.

Report Results (M-brielbo) QuanTEM Website Other_

11401

Cell Phone: 48-3/7-4292 Project Location:

Project Name;

Phone: 41/5-702-5/15

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Compeny:

Contact

Project Information

Pawhuska Project ID: Email: Lus tin. lawi 300 TOATE STIME Sandled By Street Name A. S. L. D. RECUNIONISHED BY Account #;

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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE O Use this address for Saturday Delivery only: 4226 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 Mark Package "Hold for Saturday Pickup"